Motrial, An Academic and Collaborative Search Engine Dedicated to Behavioral Interventions (and #NPIs) Trials

Pr. Gregory Ninot, PhD
Plateforme CEPS
University of Montpellier
Montpellier Cancer Institute
**Trial Searches for Systematic Reviews are Time-consuming**

**Explanation.** The National Library of Medicine’s MEDLINE database is one of the most comprehensive sources of health care information in the world. Like any database, however, its coverage is not complete and varies according to the field. Retrieval from any single database, even by an experienced searcher, may be imperfect, which is why detailed reporting is important within the systematic review.

At a minimum, for each database searched, authors should report the database, platform, or provider (e.g., Ovid, Dialog, PubMed) and the start and end dates for the search of each database. This information lets readers assess the currency of the review, which is important because the publication time-lag outdates the results of some reviews [64]. This information should also make updating more efficient [65]. Authors should also report who developed and conducted the search [66].

Liberati et al. (*PLOS Medicine*, 2009)
Trial Searches for Systematic Reviews are Time-consuming

February 14, 2018

Updating the PRISMA reporting guideline for systematic reviews and meta-analyses: study protocol

Matthew J Page¹, Joanne E McKenzie¹, Patrick M Bossuyt², Isabelle Boutron³,⁴,⁵,⁶, Tammy Hoffmann⁷,
Cynthia D Mulrow⁸, Larissa Shamseer⁹, David Moher¹⁰,¹¹

**Trial Searches for Systematic Reviews are Time-consuming**

1.531 identified publications

6 MONTHS
8 RESEARCHERS

77 articles included
A Randomized, Controlled Trial of Total Knee Replacement

Søren T. Skou, P.T., Ph.D., Ewa M. Roos, P.T., Ph.D., Mogens B. Laursen, M.D., Ph.D., Michael S. Rathleff, P.T., Ph.D., Lars Arendt-Nielsen, Ph.D., D.M.Sc., Ole Simonsen, M.D., D.M.Sc., and Sten Rasmussen, M.D., Ph.D.
Trial Searches for Systematic Reviews are with Risks of Selection Bias

Example: A 2-Groups Randomized Controlled Trial using a Behavioral Intervention

The Results

A Randomized, Controlled Trial of Total Knee Replacement

Søren T. Skou, Ph.D., Ewa M. Roos, Ph.D., Mogens B. Laursen, M.D., Ph.D., Michael S. Rathleff, Ph.D., Lars Arendt-Nielsen, Ph.D., Ole Simonsen, M.D., Ph.D., and Sten Rasmussen, M.D., Ph.D.

The Protocol

Total knee replacement plus physical and medical therapy or treatment with physical and medical therapy alone: a randomised controlled trial in patients with knee osteoarthritis (the MEDIC-study)

Søren T. Skou1,2,5, Ewa M Roos3, Mogens B Laursen1, Michael S Rathleff1,4, Lars Arendt-Nielsen2, Ole H Simonsen1 and Sten Rasmussen1
Trial Searches for Systematic Reviews are with Risks of Selection Bias

Study Protocol

Ethics Committee Report

Statistical Plan

ClinicalTrials Declaration

Supplementary Appendix

Disclosure of Potential Conflicts of Interest

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Local ethics committee of the North Denmark Region (N-20110024)

TABLE OF CONTENTS

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Instructions

The purpose of this form is to provide readers of your manuscript with information about your other interests that could influence how they receive and understand your work. The form is designed to be completed electronically and stored electronically. It contains programming that allows appropriate data display. Each author should submit a separate form and is responsible for the accuracy and completeness of the submitted information. The form is in six parts.

Responsible Party: Northern Orthopaedic Division, Denmark
ClinicalTrials.gov Identifier: NCT01410409
Other Study ID Numbers: N-20110024
First Posted: August 5, 2011
Results First Posted: January 27, 2016
Last Update Posted: October 16, 2017
Trial Searches for Systematic Reviews are with Risks of Selection Bias

2012
Skou et al. (BMC Musculoskelet Disord) => Study Protocol

2015
Skou et al. (N Engl J Med) => Main Results corresponding to Declared Protocol
Skou et al. (J Orthop Sports Phys Ther) => Self-reported and objective correlates

2016
Skou et al. (Osteoarthritis Cartilage) => Pre-defined ancillary analysis
Skou et al. (N Engl J Med) => Comment
Skou et al. (Eur J Pain) => Clinical Pain

2018
Traumer et al. (Musculoskeletal Care) => Motives of patients
Arendt-Nielsen et al. (Eur J Pain) => Pain and sensitization
Skou et al. (Osteoarthritis Cartilage) => 2-year outcome
Trial Searches for Systematic Reviews are with Risks of Selection Bias

COMMUNITY PAGE

Meta-research: Evaluation and Improvement of Research Methods and Practices

John P. A. Ioannidis*, Daniele Fanelli, Debbie Drake Dunne, Steven N. Goodman

Meta-Research Innovation Center at Stanford (METRICS), Stanford University, Stanford, California, United States of America

* jioannid@stanford.edu

Ioannidis et al. (PLOS Medicine, 2015)
Trial Searches for Systematic Reviews are with Risks of Selection Bias

Evolution of poor reporting and inadequate methods over time in 20 920 randomised controlled trials included in Cochrane reviews: research on research study

Agnes Dechartres associate professor, Ludovic Trinquart researcher, Ignacio Atal data scientist, David Moher senior scientist, Kay Dickersin professor, Isabelle Boutron professor, Elodie Perrodeau statistician, Douglas G Altman professor, Philippe Ravaud professor

Dechartres et al. (BMJ, 2017)
Trial Searches for Systematic Reviews are with Risks of Selection Bias

Protocols Database
- ANSM
- Chinese Clinical Trial Registry (ChiCTR)

ClinicalTrials
- Cochrane Central Register of Controlled Trials
- European Clinical Trials Register (Europe)
- International Clinical Trials Registry Platform (ICTRP) - WHO
- ISRCTN registry (BioMed Central, ltd.)
- UMIN Clinical Trials Registry (UMIN-CTR)
Trial Searches for Systematic Reviews are with Risks of Selection Bias

Results Database
- AMED (Allied and Alternative Medicine Database)
- CAIRN
- CINAHL - Cumulative Index of Nursing and Allied Health Literature
- Cochrane Library
- EPPI-Centre
- Literature in the Health Sciences in Latin America and the Caribbean
- OVID
- OT Seeker (Occupational Therapy Systematic Evaluation of Evidence)
- PEDro (Physiotherapy Evidence Database)
- PMC
- ProQuest Dialog™
- PsycINFO
- PubMed
- Science Direct
- Scopus
- SPORTDiscus
- Web of Science
Trial Searches for Systematic Reviews are with Risks of Selection Bias

**Results Japanese Database**
- JDMC

**Results Chinese Database**
- CNKI
- Chinese Biomedical Literature (CBM)
- Chinese Medical Current Content (CMCC)
- VIP
- WANFANG (China Online Journals)

![Venn Diagram](image)

Cohen et al. (2015, *Systematic Reviews*)
Trial Searches for Systematic Reviews are with Risks of Selection Bias

**Results from Open Journals**
- Annals of Saudi Medicine
- Bangladesh Journal of Pharmacology
- Biomedical Imaging and Intervention Journal
- BMC Health Services Research
- BMC Medicine
- BMJ Open
- British Medical Journal
- British Columbia Medical Journal
- Canadian Medical Association Journal
- Dermatology Online Journal
- International Journal of Medical Sciences
- Journal of Clinical Investigation
- Journal of Postgraduate Medicine
- The New England Journal of Medicine
- Open Heart
- Open Medicine
- PLOS Medicine
- PLOS Neglected Tropical Diseases
- PLOS Pathogens
- Scientia Pharmaceutica
Trial Searches for Systematic Reviews are with Risks of Selection Bias

Other
ResearchGate
GoogleScholar
...
An Exponential Growth of Clinical Trial Publications Since 2000

- Clinical Trials AND psychotherapies: > 2000 / year
- Clinical Trials AND disease management: > 25000 / year
- Clinical Trials AND exercise: > 1000 / year
- Clinical Trials AND diets: > 200 / year

Physical Activity Programs

Diets

Psychotherapies

> 100.000 #NPIs trial publications per year
Refining Publication Selection Criteria

Exercise to reduce depression symptoms post-treatment

-0.82
(95% CI -1.12 to -0.51)
28 RCT (17 in the USA)
907 participants
Mead et al.
(2008, Cochrane Reviews)

-0.62
(95% CI -0.81 to -0.42)
35 RCT (22 in the USA)
1353 participants
Cooney et al.
(2013, Cochrane Reviews)

-0.18
(95% CI -0.47 to 0.11)
6 RCT+++ (6 in the USA)
464 participants

Exercise vs. Control
Allocation concealment, ITT, blinded outcome
Goal 1: Decrease Time Delay of Database Search from 6 months to 6 minutes

A Need of an International Meta-search Engine combining Artificial Intelligence + Ontologies + Researchers
Goal 2: Obtain Relevant Information of Each Trial

Main publication

For example:


Protocol declaration

For example:

NCT01167283
ClinicalTrials.gov Identifier

Ethical Committee

For example:

n°354903
CPP Sud Méditerranée

Other publications

Other results, for example:

doi: 10.1016/j.rm.2014.10.022
doi: 10.1016/med.2012.10.052

Follow-up, secondary analysis, qualitative...

Other data, for example:

Study protocol, erratum, experience report

Sponsors

For example

Programme Hospitalier de Recherche Clinique (PHRC)
Etat français

Institution

For example:

CHU Montpellier
France

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Goal 3: Detailed Contents of Behavioral Intervention Assessed In Trials

“Percentage of studies with sufficient description of treatment initially (based only on the published paper) and after supplementary information was obtained”.

Glasziou et al. (2008, British Medical Journal)

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Goal 3: Detailed Contents of Behavioral Intervention Assessed In Trials

Motrial

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Goal 4: Justify the Need (or not) for a New Trial

Ioannidis et al. *PLOS Medicine*, 2015

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Goal 5: A Trial Search Following International Recommendations

**Networks**

**CONSORT Statement for Randomized Trials of Nonpharmacologic Treatments: A 2017 Update and a CONSORT Extension for Nonpharmacologic Trial Abstracts**

Isabelle Boutron, MD, PhD; Douglas G. Altman, DSc; David Moher, PhD; Kenneth F. Schulz, PhD, MBA; and Philippe Ravaud, MD, PhD, for the CONSORT NPT Group*

Boutron *et al.* (2017, *Annals of Internal Medicine*)

**Agencies**

**NICE** National Institute for Health and Care Excellence

**NIH**

**HAS** HAUTE AUTORITÉ DE SANTÉ

**World Health Organization**

**A Need of an International Meta-search Engine combining Artificial Intelligence + Ontologies + Researchers**
Access to MOTRIAL via ORCID *(Connecting Research and Researchers)*

[www.motrial.fr](http://www.motrial.fr)

Registration to ORCID
Key Words

Please enter your search terms here (in English)
Methodological Options

Select option (e.g., randomization)
Results of Trial and Related Declaration Protocol

MOTRIAL | Search results for: MBSR AND Cancer

Mindfulness-Based Stress Reduction in Post-treatment Breast Cancer Patients: Immediate and Sustained Effects Across Multiple Symptom Clusters
Date : 1/1/17
Journal name : Journal of Pain and Symptom Management

Randomized controlled pilot trial of mindfulness-based stress reduction compared to psychoeducational support for persistently fatigued breast and colorectal cancer survivors.
Date : 5/17/16
Journal name : Supportive care in cancer: official journal of the Multinational Association of Supportive Care in Cancer

Effect of mindfulness-based stress reduction on somatic symptoms, distress, mindfulness and spiritual wellbeing in women with breast cancer: Results of a randomized controlled trial.
WÜRTZEN Hanne, DALTON Susanne Oksbjerg, CHRISTENSEN Jane, ANDERSEN Klaus Kaase, ELSASS Peter, FLYGER Henrik L, PEDERSEN Anne E, SUMBUNDU Antonia, STEDING-JENSEN Marianne, JOHANSEN Christoffer
Date : 3/9/15
Journal name : Acta oncologica (Stockholm, Sweden)

Other results:
452 others publications found without having been able to determine their declarations

www.motrial.fr
Example of Automatic Matching

Publication:

Mindfulness-Based Stress Reduction in Post-treatment Breast Cancer Patients: Immediate and Sustained Effects Across Multiple Symptom Clusters

Abstract: Breast cancer survivors (BCS) face adverse physical and psychological symptoms, often co-occurring. Biologic and psychological factors may link symptoms within clusters, distinguishable by prevalence...

Sponsor(s) N/A
Journal name Journal of Pain and Symptom Management
Language N/A
DOI dx.doi.org/10.1016/j.jpainsymman.2016.08.005
Authors REICH Richard R., LENGACHER Cecile A., ALINAT Carlissa B., KIP Kevin E., PATERSON Carly, RAMESAR Sophia, HAN Heather S., ISMAIL-KHAN Roohi, JOHNSON-MALLARD Verale, MOSCOSO Manolrose, BUDHRANI Shawni, SHIVERS Steve, COX Charles E., GOODMAN Matthew, PARK Jong

Declaration:

Mindfulness-Based Stress Reduction (MBSR) Symptom Cluster Trial for Breast Cancer Survivors

Abstract: The purpose of this study among breast cancer survivors is three-fold: (i) to evaluate the efficacy of the MBSR(BC) program in improving psychological and physical symptoms, quality of life and measures of immune function and a stress hormone (cortisol); (ii) to test whether positive effects achieved from the MBSR(BC) program are mediated through changes in mindfulness and fear of recurrence of breast cancer; and (iii) to evaluate whether positive effects achieved from the MBSR(BC) program are modified by specific patient characteristics measured at baseline.

NCT NCT011717124
Start date 2/1/09
Completion date 12/1/13
Detailed description Breast cancer survivors are living longer and may be living with many symptoms incurred from the disease and its treatment. Survivors from 1 to 2 years off treatment report continued fatigue, depression, pain and
Example of Manual Matching

MOTRIAL | Matching page

Mindfulness-Based Interventions for Hematology and Oncology Patients with Pain
HESS Denise
Date: 6/1/18
Journal name: Hematology/Oncology Clinics of North America

Effectiveness and usability of a web-based mindfulness intervention for caregivers of people with mental or somatic illness. A randomized controlled trial
STJERNSWÄRD Sigrid, HANSSON Lars
Date: 6/1/18
Journal name: Internet Interventions

The impact of educational interventions on the empathic concern of health professional students: A literature review
EVERSON Naley, LEVETT-JONES Tracy, PITT Victoria
Date: 5/24/18
Journal name: Nurse Education in Practice
Save in a Personal Folder

MOTRIAL | Search history

10 1 - 7 of 7 result(s)  Sort Order  Descending

- **MBSR AND Cancer**
  Executed date: 5/24/18 08:11:20

- **cancer AND breast AND exercise**
  Executed date: 5/22/18 09:52:09

Download queries

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<td>Journal of the American Academy of Dermatology</td>
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<td>Alzheimer's &amp; Dementia</td>
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### Top 50 Authors

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Examples of Others Statistics

Motrial

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Condition of utilization

- Free and unlimited access to researchers
- Collaborative approach
- System managed by the University of Paul Valery Montpellier 3
- Original pdf articles must be downloaded via the Editors

Version 1.0 (May, 2018) : 690,000 € (= 800,000 US $ = 1M Can$)
with the support of France State, Region Occitanie, Montpellier Méditerranée Metropole, SIRIC Montpellier Cancer, INCa, CARSAT-LR
Motrial in Few Words

An Academic, Collaborative and Free Metasearch Engine dedicated to Behavioral Intervention (and #NPI) Trials Publications

Motrial identifies for each behavioral trials:
- main trial publication (authors, title, abstract, complete reference, DOI),
- declaration code,
- ethics commission code,
- registration protocol code
- sponsor(s),
- institution(s),
- country(ies).

Motrial for:
- narrative reviews,
- systematic reviews,
- meta-analyses,
- new trial justification.

Motrial will be regularly improved by the Plateforme CEPS, partners and users to be more efficient, reliable, exhaustive and real-time optimized (e.g., alert, DOI adding, current databases integration, statistics)
An Academic and Collaborative Platform on Assessment of #NPIs
Montpellier, France

Acknowledgments

Any comment, suggestion:

gregory.ninot@umontpellier.fr