

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

Pr. Gregory Ninot, PhD

Plateforme CEPS

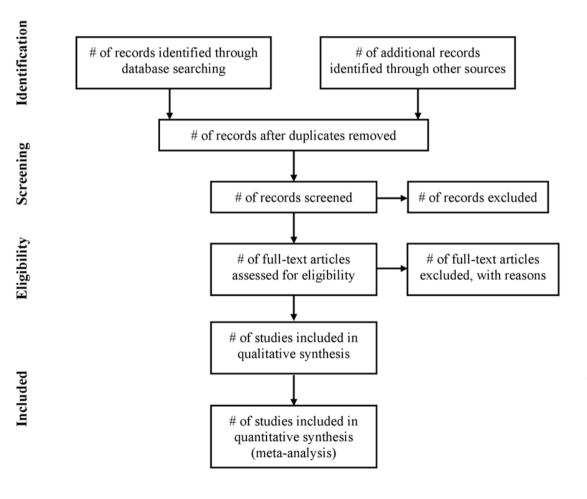
University of Montpellier

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

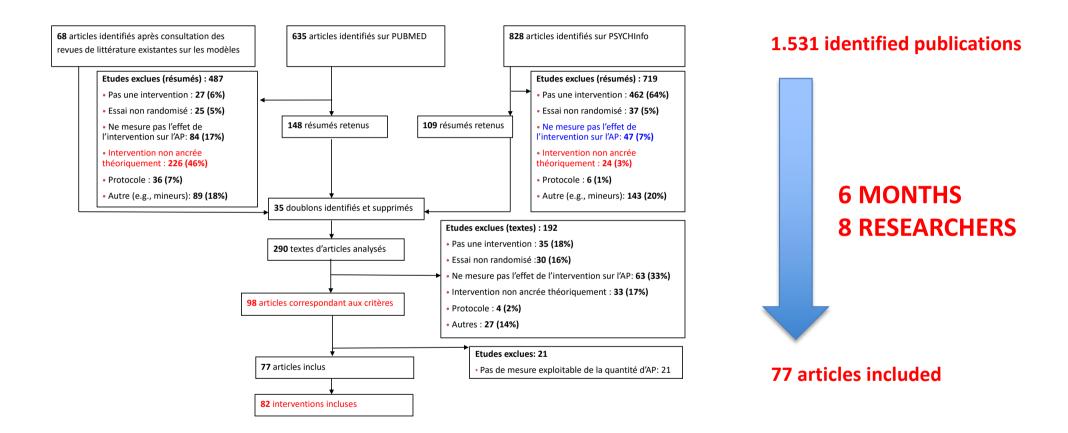
Matthew J Page¹, Joanne E McKenzie¹, Patrick M Bossuyt², Isabelle Boutron^{3,4,5,6}, Tammy Hoffmann⁷,

Cynthia D Mulrow⁸, Larissa Shamseer⁹, David Moher^{10,11}

Page et al. (In Progress)



Trial Searches for Systematic Reviews are Time-consuming



Bernard P, Carayol M, Gourlan M, Boiché J, Romain AJ, Bortolon C, Lareyre O, Ninot G (2017). Moderators of Theory-Based Interventions to Promote Physical Activity in 77 Randomized Controlled Trials. *Health Education and Behavior*, 44(2), 227-35.



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



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.



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

The Results

ESTABLISHED IN 1812

The NEW ENGLAND IOURNAL of MEDICINE

OCTOBER 22, 2015

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.

VOL. 373 NO. 17

The Protocol

Skou et al. BMC Musculoskeletal Disorders 2012, 13:67 http://www.biomedcentral.com/1471-2474/13/67 BMC Musculoskeletal Disorders

STUDY PROTOCOL

Open Access

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)

Soren T Skou^{1,2,5*}, Ewa M Roos³, Mogens B Laursen¹, Michael S Rathleff^{1,4}, Lars Arendt-Nielsen², Ole H Simonsen¹ and Sten Rasmussen^{1,6}



Study Protocol

Siou et al. BMC Musculoslatistal Elisonden 2012, 12:67 http://www.biomedcontral.com/1471-2474/13/67	Musculoskeletal Disorders
STUDY PROTOCOL	Open Access
Total knee replacement pl therapy or treatment with therapy alone: a randomise patients with knee osteoar	physical and medical ed controlled trial in
ioren T Skou ^{12,9} , Ewa M Roos ³ , Mogens B Laursen ¹ , Micha Ne H Simonsen ¹ and Sten Rasmussen ¹⁶	el S Rathleff ^{1,4} , Lars Arendt-Nielsen ² ,

ClinicalTrials Declaration

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Structured Treatment of Osteoarthritis of the Knee With or With	out Total Knew	e Replacement (1	MEDIC)		
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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

Ethics Committee Report

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

Statistical Plan





Statistical analysis plan (SAP) for MEDIC Skou, Soren Thorgaard; Roos, Ewa M.; Laursen, Mogens Berg; Rathleff, Michael Skovdal; Arendt-Nielsen, Lars; Simonsen, Ole; Rasmussen, Sten

Supplementary Appendix

TABLE OF CONTENTS

BLI	NDED REVIEW OF THE PRIMARY ENDPOINT RESULTS FROM THE STUDY
DET	AILS OF THE NON-SURGICAL TREATMENT
	Exercise
	Education
	Diet
	Insoles
	Pain medication
-IG	URES
	Fig. S1. Mean subscale scores for the five KOOS subscales
FAE	LES
	Expanded Table 1. Baseline characteristics ¹
	Expanded Table 3. Adverse Events
Ir	tention-to-treat results
	Table S1. Usage of pain medication at 12 months
	Table S2. Improvements of at least 15% and Number Needed to Treat (NNT)
P	r-protocol results
	Table S3. Outcome at 12 months
	Table S4. Usage of pain medication at 12 months
	Table S5. Adverse Events
	Table S6. Improvements of at least 15% and Number Needed to Treat (NNT)
A	-treated analysis
	Table S7. Adverse Events associated with treatment
т	eatment-related variables
	Table S8. Compliance
	Table 59. Other treatments or consultations during follow up

Disclosure of Potential Conflicts of Interest



ICMJE Form for Disclosure of Potential Conflicts of Interest

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.



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 PLOS BIOLOGY



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)



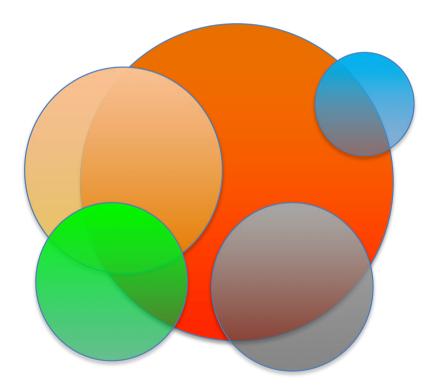


Evolution of poor reporting and inadequate methods over time in 20 920 randomised controlled trials included in Cochrane reviews: research on research study

Agnes Dechartres *associate professor*¹⁴, Ludovic Trinquart *researcher*¹⁴, Ignacio Atal *data scientist*¹⁴, David Moher *senior scientist*⁵, Kay Dickersin *professor*⁶, Isabelle Boutron *professor*¹⁴, Elodie Perrodeau *statistician*¹³, Douglas G Altman *professor*⁷, Philippe Ravaud *professor*¹⁴⁸

Dechartres et al. (BMJ, 2017)



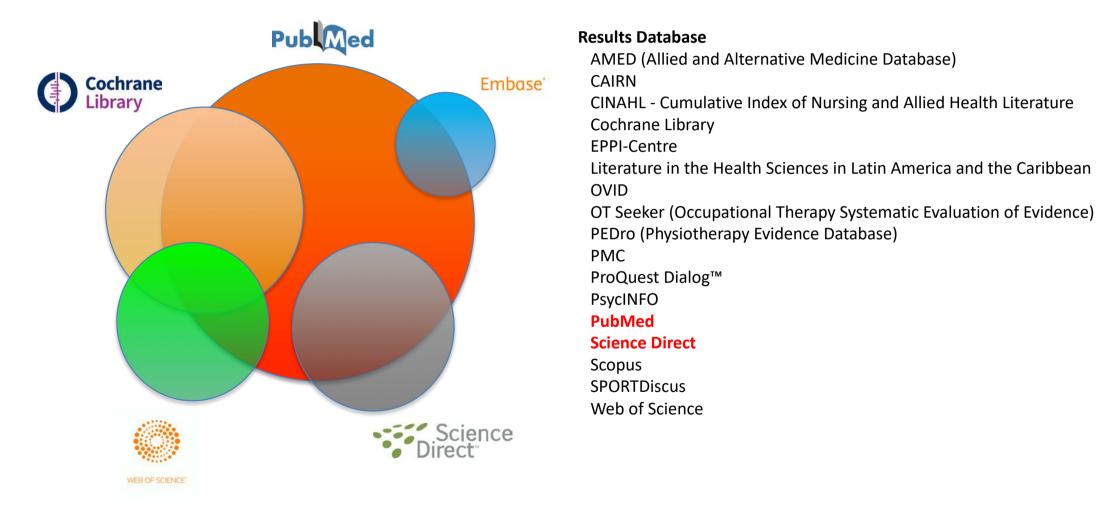


Protocols Database

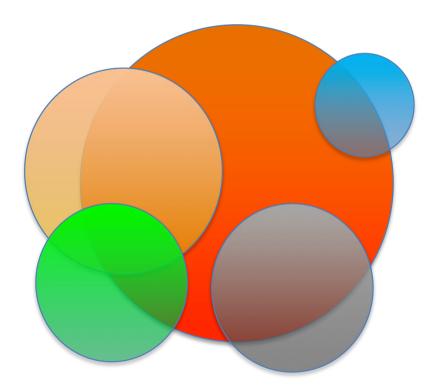
ANSM Chinese Clinical Trial Registry (ChiCTR) ClinicalTrials Cochrane Central Register of Controlled Trials European Clinical Trials Register (Europe) International Clinical Trials Registry Platform (ICTRP) - WHO ISRCTN registry (BioMed Central, Itd.)

UMIN Clinical Trials Registry (UMIN-CTR)



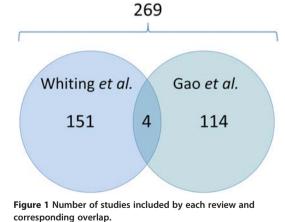






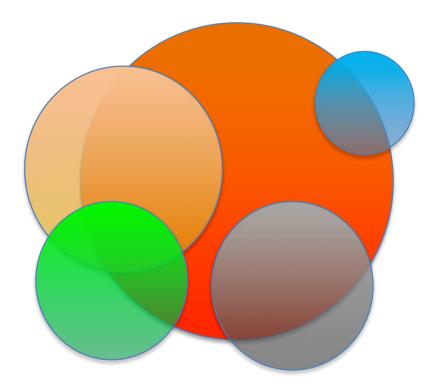
Results Japanese Database JDMC

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



Cohen et al. (2015, Systematic Reviews)

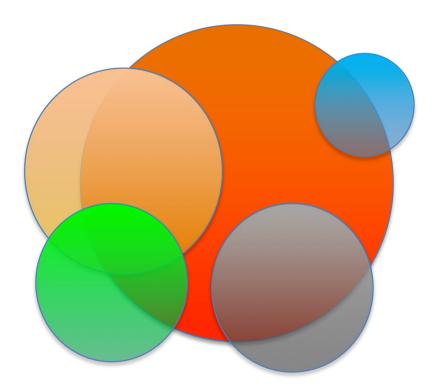




Results from Open Journals

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



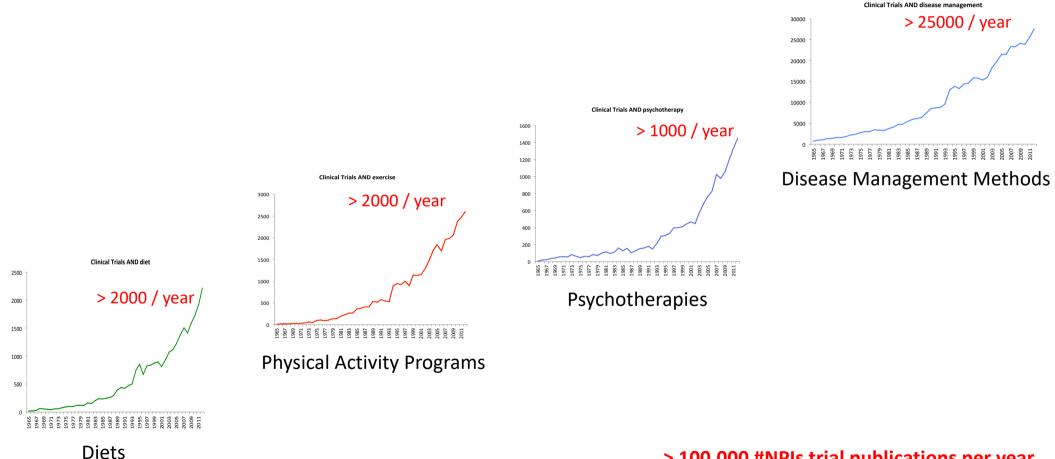


Other ResearchGate GoogleScholar

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An Exponential Growth of Clinical Trial Publications Since 2000



> 100.000 #NPIs trial publications per year



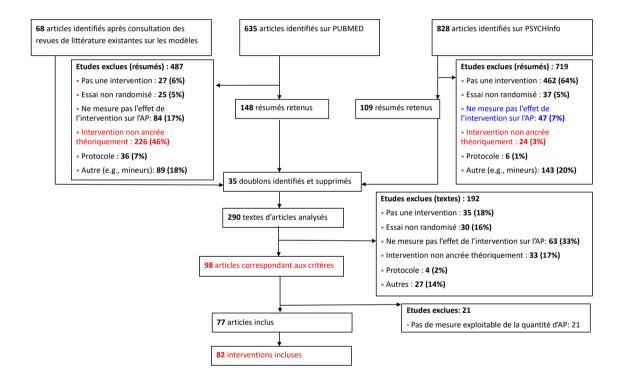
Refining Publication Selection Criteria

Exercise to reduce depression symptoms post-treatment

-0.82	-0.62	-0.18
(95% CI -1.12 to -0.51)	(95% CI -0.81 to -0.42)	(95% CI -0.47 to 0.11)
28 RCT (17 in the USA)	35 RCT (22 in the USA)	6 RCT+++ (6 in the USA)
		Exercise vs. Control
		Allocation concealment, ITT, blinded outcome
907 participants	1353 participants	464 participants
Exercise for degression (Berlew) Nation C. Mady W. Caughel F. Caug C. M. Marine M. Lanke D. X	Cochrane Library Cochrane Database of Systematic Reviews	Cochrane Library cetrare Database of Systematic Reviews
THE COCHRANE COLLABORATION	Exercise for depression (Review) Cooney GM, Dwan K, Greig CA, Lawlor DA, Rimer J, Waugh FR, McMurdo M, Mead GE	Exercise for depression (Review) Cooney GM, Dwan K, Greig CA, Lawlor DA, Rimer J, Waugh FR, McMurdo M, Mead GE
Mead <i>et al.</i>	Cooney <i>et al.</i>	Cooney et al.
(2008, Cochrane Reviews)	(2013, Cochrane Reviews)	(2013, Cochrane Reviews)



Goal 1: Decrease Time Delay of Database Search from 6 months to 6 minutes MOTRIAL



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Goal 2: Obtain Relevant Information of Each Trial

Main publication

MOTRIAL

For example:

doi: 10.1016/j.rmed.2010.10.002

Ninot G, Moullec G, Picot MC, Jaussent A, Hayot M, Desplan M, Brun JF, Mercier J, Prefaut C. Cost-saving effect of supervised exercise associated to COPD selfmanagement education program. Respir Med. 2011 Mar;105(3):377-85.



Cost-saving effect of supervised exercise associated to COPD self-management education program

G. Ninot ^{a,*}, G. Moullec ^a, M.C. Picot ^b, A. Jaussent ^b, M. Hayot ^c, M. Desplan ^c, J.F. Brun ^c, J. Mercier ^c, C. Prefaut ^c

*University Montpellier 1, Luboratory Epylon, EA-206 Addictive, Performance and Health Behaviors, 4 Boulevard Henri IV, Montpellier 7-3400, France "University Montpellier 1, CHU Montpellier, Intilé de Recherche Clinique et Epidémiologie, Montpellier 7-3426, France "University Montpellier 1, CHU Montpellier, INSEM REST Suscie and Pathologies, Montpellier 7-3426, France

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

Protocol declaration

For example: NCT01167283 ClinicalTrials.gov Identifier

Ethical Committee

For example: n°354903 CPP Sud Méditerranée

Sponsors

For example Programme Hospitalier de Recherche Clinique (PHRC) Etat français

Institution

For example: CHU Montpellier France

A Need of an International Meta-search Engine combining Artificial Intelligence + Ontologies + Researchers

erouns are meas



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

Intervention description:

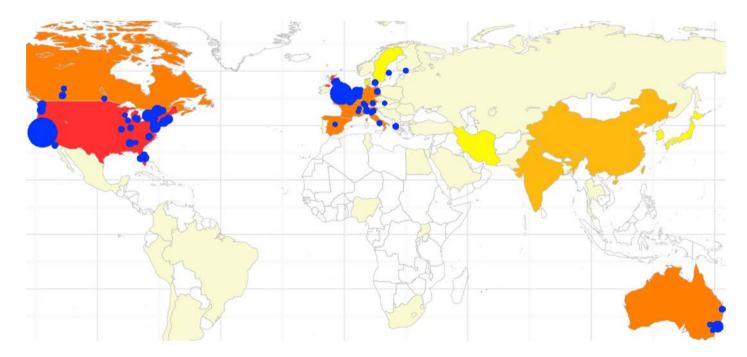
Name (synonyms, abbreviation) Content (technique, skill...) Dose (period, frequency, intensity) Theoretical model Supervision (training...)







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



Ioannidis et al. (PLOS Medicine, 2015)



Goal 5: A Trial Search Following International Recommendations

Networks



Annals of Internal Medicine $\ Research \ \text{Ann} \ Reporting \ Methods$

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)



ibtn

internationa

behavioural trials network







Agencies

NICE National Institute for Health and Care Excellence

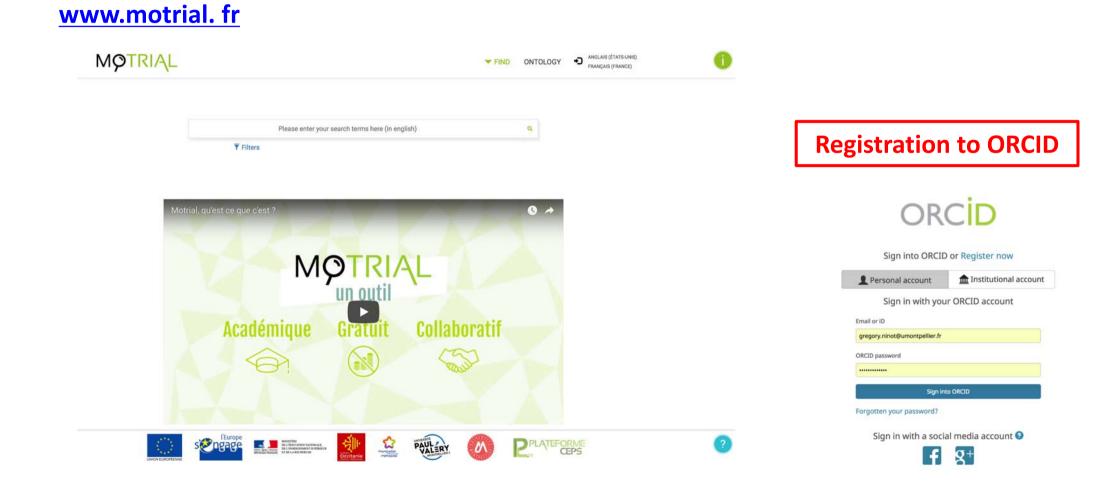








Access to MOTRIAL via ORCID (Connecting Research and Researchers)







Key Words MOTRIAL FIND FAVOURITES HISTORY ONTOLOGY STATISTICS ADMIN OR FRANÇAIS (FRANCE)

MBSR×	AND \$ Cancer×	Please enter your search terms here (in english)	Q	
	Filters			

Provide key words

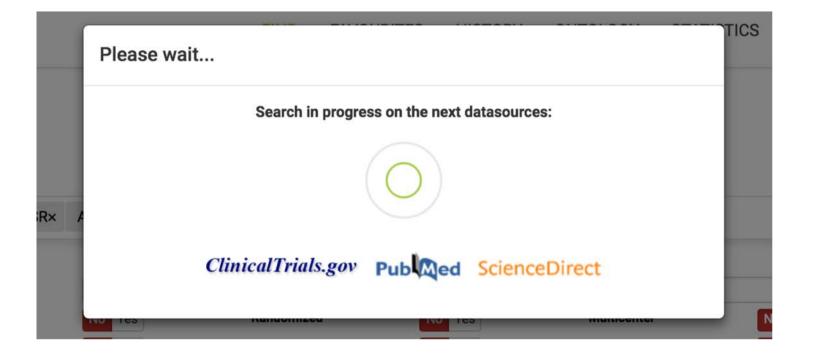


Methodological Options

MBSF	AND \$ Cancer×	Please enter your search te	rms here (in english)		٩	
	T Filters					
Intervention	No Yes	Randomized	No Yes	Multicenter	No Yes	
Follow up	No Yes	Control Group	No Yes	Placebo	No Yes	
Blind study		\$	Study Purpose	(\$ Select option (e.g.,
Primary Outcome						
Secondary Outcome						randomization)
Analysis	(\$				-
Population age	Child (0-17)	Yes Adult (18–65)		Senior (66+)	No Yes	
Population gender		\$				
Authors						
Country		\$				
Date	jj/mm/aaaa					



Search





Results of Trial and Related Declaration Protocol

MOTRIAL | Search results for: MBSR AND Cancer

10 \$ 1 - 9 of 9 m	esult(s) ¥ Sort Order Desce	ending 🗢	Page 1 / 1	Other results : 452 others publications
	ased Stress Reduction ir Multiple Symptom Clust	found without having been able to determine their declarations		
		Carissa B., KIP Kevin E., PATERSON Carly, RAMESAR Sophia, HAN Heather S., ISMAIL-KHAN Roohi, JO II-SHANI Pinky, SHIVERS Steve, COX Charles E., GOODMAN Matthew, PARK Jong	DHNSON-	Associate
Date : Journal name :	1/1/17 Journal of Pain and Symptom N	Management	···>	
		ndfulness-based stress reduction compared to psychoeducational t and colorectal cancer survivors.	æ 00a	
		thleen, TALIB Tasneem L, MONAHAN Patrick O, GIESLER R Brian, TONG Yan, WILHELM Laura, CARPI GROOT Mary, SCHMIDT Karen, MONCESKI Diane, DANH Marie, ALYEA Jennifer M, MILLER Kathy D, KF		
Date :	5/17/16			l Results
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Effect of mind wellbeing in we WÜRTZEN Hanne,	fulness-based stress red omen with breast cancer DALTON Susanne Oksbjerg, CHF	uction on somatic symptoms, distress, mindfulness and spiritual :: Results of a randomized controlled trial. RISTENSEN Jane, ANDERSEN Klaus Kaae, ELSASS Peter, FLYGER Henrik L, PEDERSEN Anne E, SUMB	æ	



Example of Automatic Matching



Results list

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	Country	N/A			
Journal name	Journal of Pain and Symptom Management	Journal ISSN	08853924			
Language	N/A	Date	1/1/17			
DOI	Dx.doi.org/10.1016/j.jpainsymman.2016.08.005	ID	S0885392416303335			
Authors	REICH Richard R., LENGACHER Cecile A., ALINAT Carissa B., KIP Kevin E SHANI Pinky, SHIVERS Steve, COX Charles E., GOODMAN Matthew, PAR	The state of the s	Heather S., ISMAIL-KHAN Roohi, JOHNSON-MALLARD Versie, MOSCOSO Man	olete, BUDHRANI-		
Datasources	Publiced ScienceDirect					
Categories						

Declaration:

Abstract:

NTC

Start date

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

B 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. NCT01177124 12/1/13 2/1/09 Completion date

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 Detailed description



Example of Manual Matching

MOTRIAL | Matching page

Mindfulness-Ba	used Interventions fo	Hematology and Oncology Patients with Pain	
IESS Denise			
Date :	6/1/18		
Journal name :	Hematology/Oncology	Clinics of North America	> 30 Declaration(s)
randomized con	ntrolled trial	based mindfulness intervention for caregivers of people	_
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randomized con STJERNSWÄRD Sign Date : Journal name : The impact of e	6/1/18 Internet Interventions	ns on the empathic concern of health professional stud	> 30 Declaration(s)



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MOTRIAL Search history								
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MBSR AND Cancer Executed date: 5/24/18 08:11:20						۲	U	
Executed date: 5/22/18 09:53:09						۲	U	

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Top 50 Journals

1: Gastroenterology 2: The Lancet 3: Journal of Pain and Symptom Management 4: Clinical Nutrition 5: Journal of the American Academy of Dermatology 6: Journal of Ethnopharmacology 7: Archives of Physical Medicine and Rehabilitation 8: Alzheimer's & Dementia 9: Research in Developmental Disabilities 10: American Journal of Obstetrics and Gynecology 11: Social Science & Medicine 12: Bioresource Technology 13: Procedia - Social and Behavioral Sciences 14: Nutrition 15: Microporous and Mesoporous Materials 16: Chest 17: European Journal of Cancer 18: Value in Health 19: Science of The Total Environment 20: Physiotherapy 21: Complementary Therapies in Medicine 22: Chemosphere 23: The Journal of Urology 24: European Psychiatry 25: Annales de Dermatologie et de Vénéréologie 26: Neurobiology of Aging 27: Schizophrenia Research 28: The Journal of Pediatrics 29: Journal of Hazardous Materials 30: Radiotherapy and Oncology 31: Journal of Investigative Dermatology : International Journal of Radiation Oncology*Biology*Physics 33: International Journal of Cardiology 34: Science & Sports 35: Clinical Nutrition Supplements 36: Neuroscience Letters 37: Food Chemistry 38: Journal of the Neurological Sciences 39: Industrial Crops and Products 40: Journal of Psychosomatic Research 41: Patient Education and Counseling 42: Preventive Medicine MOTRIAL 43: Journal of the Academy of Nutrition and Dietetics 44: Kinésithérapie, la Revue 45: Journal of Affective Disorders 46: Journal of the American College of Cardiology www.motrial. fr 47: The Journal of Pain 48: European Journal of Integrative Medicine





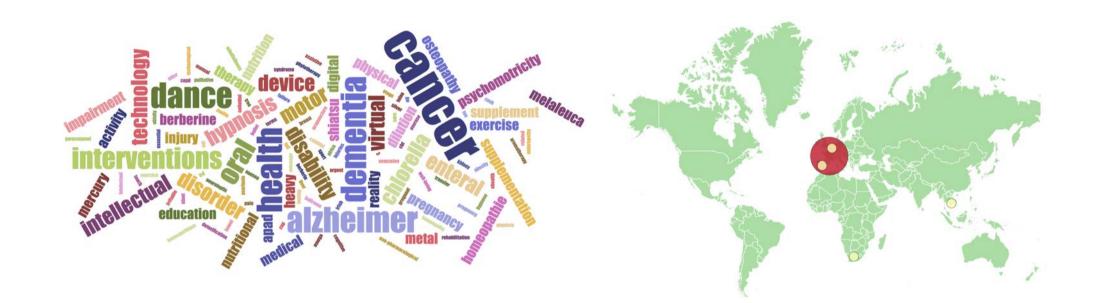
Top 50 Authors

1: Michael Heinrich 2: Alain Sarembaud 3: A. Sarembaud 3 (ex aequo): Emeran A. Mayer 4: Wei Wang 5: Michael Camilleri 6: Wei Zhang 7: Leon Chaitow 8: Johnny L. Matson 9: Wei Li 10: Jo-Shu Chang 11: Eduardo Bruera 12: Philip Scheltens 13: Jun Wang 14: Nicholas J. Talley 15: Lin Chang 16: Yan Li 17: Jing Wang 18: Jeff Sigafoos 18 (ex aequo): Tiffany Field 19: Yan Wang 20: Magnus Simren 21: Bernard Poitevin 22: Jing Li 22 (ex aequo): Yan Zhang 23: Lei Zhang 24: Ronald C. Petersen 25: Mark Lebwohl 25 (ex aequo): Jun Li 25 (ex aequo): William E. Whitehead 26: Bruce D. Naliboff 27: Éliane Frécon Valentin 27 (ex aequo): Annie Pascal 28: Kaj Blennow 28 (ex aequo): L. Puig 28 (ex aequo): Jing Zhang 29: Jean-Pierre Barral 29 (ex aequo): Alan R. Zinsmeister 29 (ex aequo): Lei Wang 30: Li Li 30 (ex aequo): Ying Wang 31: Clifford R. Jack 31 (ex aequo): Yang Liu 31 (ex aequo): Gerhard Andersson 31 (ex aequo): Alain Croibier 32: Edzard Ernst 32 (ex aequo): Yu Zhang 32 (ex aequo): Jin-Ding Lin





Examples of Others Statistics



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Condition of utilization

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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).

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Motrial for:

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- meta-analyses,
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on Assessment of #NPIs

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gregory.ninot@umontpellier.fr

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