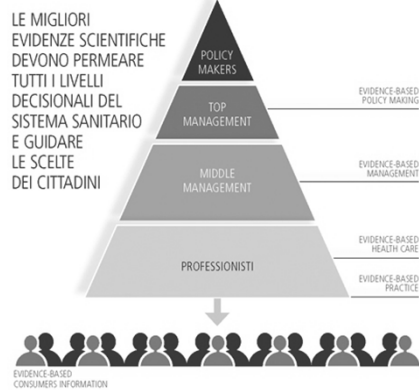


**Ridurre gli sprechi e aumentare
il valore della ricerca biomedica
Un mandato etico**

Nino Cartabellotta
Fondazione GIMBE

Disclosure sui conflitti d'interesse

- La Fondazione GIMBE, di cui sono Presidente, eroga attività di formazione e consulenza sui temi trattati dalla mia relazione
- Nessun altro conflitto da dichiarare



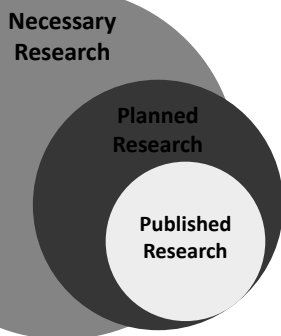
ANALYSIS

ESSAY

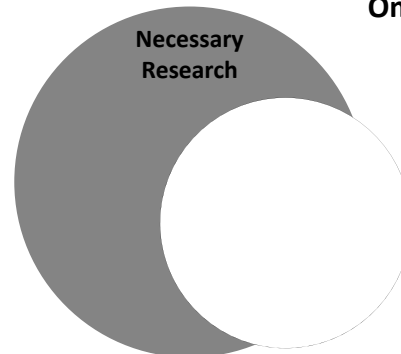
Evidence based medicine: a movement in crisis?

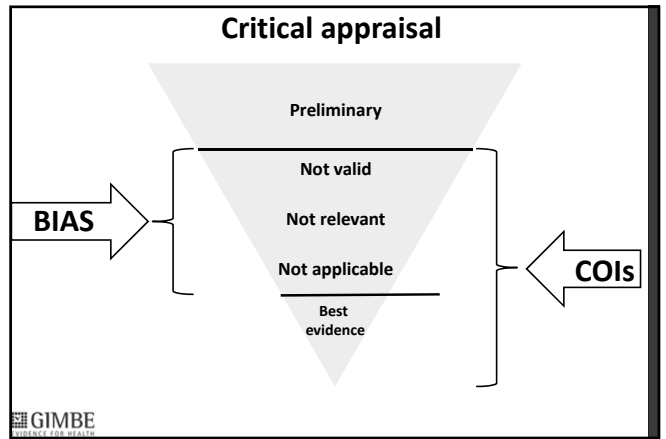
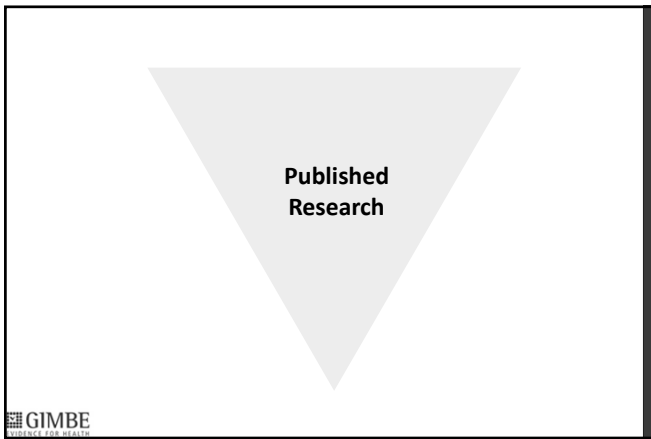
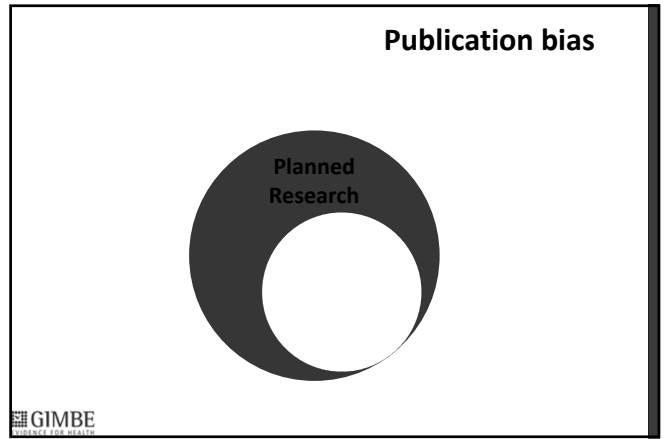
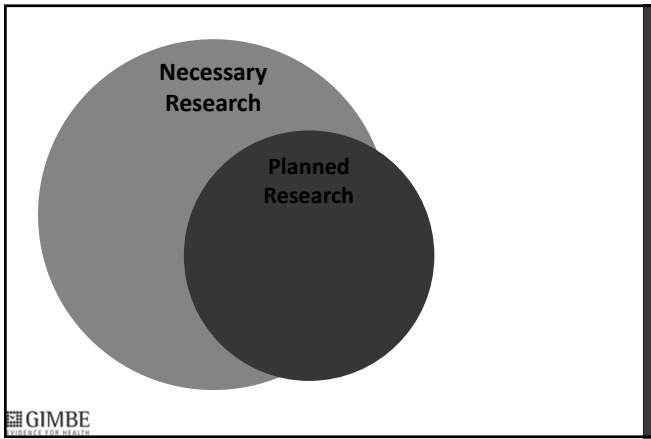
Trisha Greenhalgh and colleagues argue that, although evidence based medicine has had many benefits, it has also had some negative unintended consequences. They offer a preliminary agenda for the movement's renaissance, refocusing on providing useable evidence that can be combined with context and professional expertise so that individual patients get optimal treatment

Trisha Greenhalgh dean for research impact¹, Jeremy Howick senior research fellow², Neal Maskrey professor of evidence informed decision making³, for the Evidence Based Medicine Renaissance Group



Omission bias





W Avoidable waste in the production and reporting of research evidence

Iain Chalmers, Paul Glasziou Lancet 2009; 374: 86-89

Questions relevant to clinicians and patients?	Appropriate design and methods?	Accessible full publication?	Unbiased and usable report?
<p>Low priority questions addressed</p> <p>Important outcomes not assessed</p> <p>Clinicians and patients not involved in setting research agendas</p>	<p>Over 50% of studies designed without reference to systematic reviews of existing evidence</p> <p>Over 50% of studies fail to take adequate steps to reduce biases—eg, unconcealed treatment allocation</p>	<p>Over 50% of studies never published in full</p> <p>Biased under-reporting of studies with disappointing results</p>	<p>Over 30% of trial interventions not sufficiently described</p> <p>Over 50% of planned study outcomes not reported</p> <p>Most new research not interpreted in the context of systematic assessment of other relevant evidence</p>
<p>Research waste</p>			

GIMBE VIDENCE FOR HEALTH Figure: Stages of waste in the production and reporting of research evidence relevant to clinicians and patients

THE LANCET

"By ensuring that efforts are infused with rigour from start to finish, the research community might protect itself from the sophistry of politicians, disentangle the conflicted motivations of capital and science, and secure real value for money for charitable givers and taxpayers through increased value and reduced waste."

GIMBE VIDENCE FOR HEALTH Research: increasing value, reducing waste

42 "wasters"

A Metin Gülmezoglu, Andrew Vickers, An-Wen Chan, Ben Djulbegovic, David Moher, David W Howells, Davina Ghera, Douglas G Altman, Elaine Beller, Elina Hemminki, Elizabeth Wager, Fujian Song, H Bart van der Worp, Harlan M Krumholz, Iain Chalmers, Ian Roberts, Isabelle Boutron, Janet Wisely, John P A Ioannidis, Jonathan Grant, Jonathan Kagan, Julian Savulescu, Kay Dickersin, Kenneth F Schulz, Malcolm R Macleod, Mark A Hlatky, Michael B Bracken, Mike Clarke, Muin J Khoury, Patrick Bossuyt, Paul Glasziou, Peter C Gøtzsche, Robert S Phillips, Robert Tibshirani, Rustam Al-Shahi Salman, Sander Greenland, Sandy Oliver, **Silvio Garattini**, Steven Julious, Susan Michie, Tom Jefferson, Ulrich Dirnagl



Comment

Biomedical research: increasing value, reducing waste



Comment

How should medical science change?



evidence

open access journal published by the GIMBE Foundation

Editoriale

OPEN ACCESS

Gli sprechi della ricerca biomedica e la crisi dell'Evidence-based Medicine

Antonino Cartabellotta*



Life sciences research in 2010

US\$ 240.000.000.000



85% wasted



Series Papers

How to increase value and reduce waste when research priorities are set
Iain Chalmers, Michael B Bracken, Ben Djulbegovic, Silvio Garattini, Jonathan Grant, A Metin Gülmezoglu, David W Howells, John P A Ioannidis, Sandy Oliver
[Full Text](#) | [PDF](#)

Increasing value and reducing waste in research design, conduct, and analysis
John P A Ioannidis, Sander Greenland, Mark A Hlatky, Muin J Khoury, Malcolm R Macleod, David Moher, Kenneth F Schulz, Robert Tibshirani
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Increasing value and reducing waste in biomedical research regulation and management
Rustam Al-Shahi Salman, Elaine Beller, Jonathan Kagan, Elina Hemminki, Robert S Phillips, Julian Savulescu, Malcolm Macleod, Janet Wisely, Iain Chalmers
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Increasing value and reducing waste: addressing inaccessible research
An-Wen Chan, Fujian Song, Andrew Vickers, Tom Jefferson, Kay Dickersin, Peter C Gøtzsche, Harlan M Krumholz, Davina Ghera, H Bart van der Worp
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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
[Full Text](#) | [PDF](#)

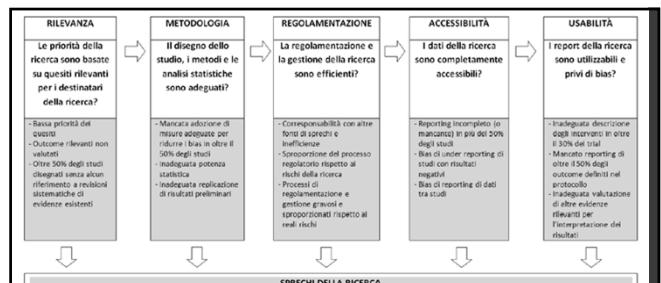



Figura. Sprechi e inefficienze evitabili nella ricerca biomedica (tradotta e adattata da Macleod MR et al.27)




Research: increasing value, reducing waste 1

How to increase value and reduce waste when research priorities are set

Bain Chalmers, Michael B Bracken, Ben Djulfbegovic, Silvio Garattini, Jonathan Grant, A Metin Gülmehçoglu, David W Howells, John P A Ioannidis, Sandy Oliver




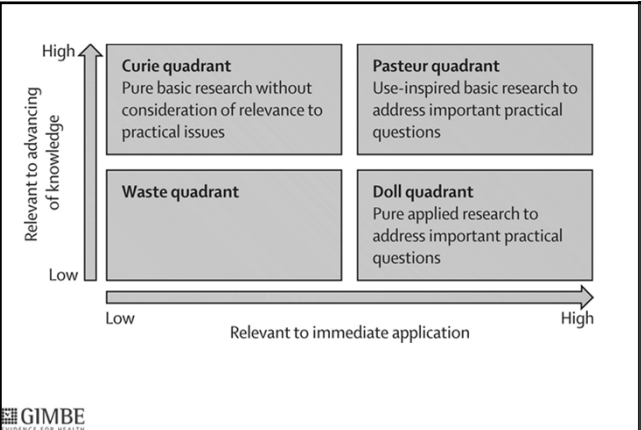
RELEVANZA	METODOLOGIA	REGOLAMENTAZIONE	ACCESSIBILITÀ	UTILITÀ
Le priorità della ricerca sono basate su quesiti rilevanti per i destinatari della ricerca?	Il disegno della ricerca, i metodi e le analisi statistiche sono adeguati?	La regolamentazione e la pratica della ricerca sono efficaci?	I dati della ricerca sono opportunamente accessibili?	I rapporti della ricerca sono affidabili e privi di bias?
Esiste evidenza per: <ul style="list-style-type: none"> Diagnosi Trattamenti Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione 	Manca evidenza di: <ul style="list-style-type: none"> Diagnostica Trattamenti Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione 	Conoscibilità con: <ul style="list-style-type: none"> Diagnostica Trattamenti Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione 	Reporting completo di: <ul style="list-style-type: none"> Diagnostica Trattamenti Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione 	Trasparenza di: <ul style="list-style-type: none"> Diagnostica Trattamenti Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione Diagnostica Prevenzione
SPECIFICITÀ DELLA RICERCA				



RILEVANZA

Le priorità della ricerca sono basate su quesiti rilevanti per i destinatari della ricerca?

- Bassa priorità dei quesiti
- Outcome rilevanti non valutati
- Oltre 50% degli studi disegnati senza alcun riferimento a revisioni sistematiche di evidenze esistenti





Curie quadrant
Pure basic research without consideration of relevance to practical issues

Pasteur quadrant
Use-inspired basic research to address important practical questions

Waste quadrant

Doll quadrant
Pure applied research to address important practical questions



SPECIAL ARTICLES

Translation of Highly Promising Basic Science Research into Clinical Applications


Despina G. Contopoulos-Ioannidis, MD, Evangelia E. Ntzani, MD, John P. A. Ioannidis, MD

PURPOSE: To evaluate the predictors of and time taken for the translation of highly promising basic research into clinical experimentation and use.

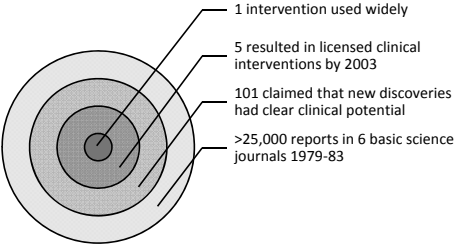
METHODS: We identified 101 articles, published between 1979 and 1983 in six major basic science journals, which clearly stated that the technology studied had novel therapeutic or preventive promises. Each case was evaluated for whether the promising finding resulted in relevant randomized controlled trials and clinical use. Main outcomes included the time to published trials, time to published trials with favorable results ("positive" trials), and licensed clinical use.

RESULTS: By October 2002, 27 of the promising technologies had resulted in at least one published randomized trial, 19 of which had led to the publication of at least one positive randomized trial. Five basic science findings are currently licensed for clinical use, but only one has been used extensively for the licensed indications. Promising technologies that did not lead to a published human study within 10 to 12 years were unlikely to be tested in humans subsequently. Some form of industry involvement in the basic science publication was the strongest predictor of clinical experimentation, accelerating the process by about eightfold (95% confidence interval: 3 to 19) when an author had industry affiliations.



CONCLUSION: Even the most promising findings of basic research take a long time to translate into clinical experimentation, and adoption in clinical practice is rare. *Am J Med.* 2003; 114:477-484. ©2003 by Excerpta Medica Inc.



L'inefficienza della ricerca di base



- 1 intervention used widely
- 5 resulted in licensed clinical interventions by 2003
- 101 claimed that new discoveries had clear clinical potential
- >25,000 reports in 6 basic science journals 1979-83


Welcome to the James Lind Alliance website

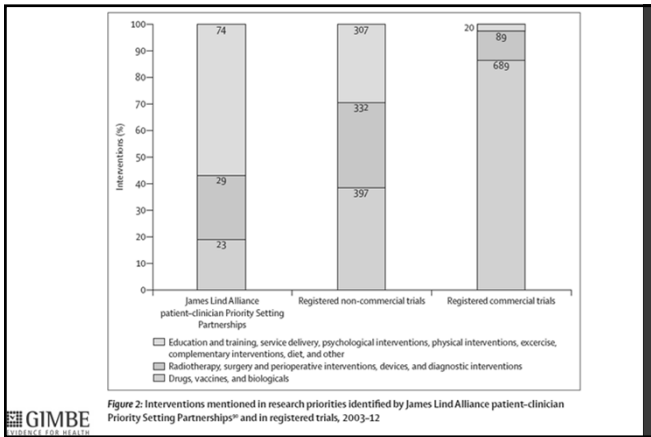
The James Lind Alliance (JLA) is a non-profit making initiative which was established in 2004. It brings patients, carers and clinicians together to identify and prioritise the **top 10 uncertainties**, or 'unanswered questions', about the effects of treatments that they agree are most important.

This information will help ensure that those who fund health research are aware of what matters to both patients and clinicians.

This website contains information for those interested in finding out more about the JLA, and those who wish to become involved.

Click [here](#) to hear about what the JLA does, and click [here](#) to watch a video describing the JLA's approach to stakeholder involvement in research priority setting.





NICE **DUETs**

Home • Evidence Services Content • Evidence Services Content • UK Database of Uncertainties about the Effects of Treatments (DUETs) Home

Search [] [] Help

ABOUT UNCERTAINTIES SUBMIT AN UNCERTAINTY BIBLIOGRAPHIES

UK DUETs: where uncertainties about the effects of treatment are collected and published

What is UK DUETs?
The UK Database of Uncertainties about the Effects of Treatments (UK DUETs) publishes treatment uncertainties from patients, carers, clinicians, and from research recommendations, covering a wide variety of health problems.

Where do the uncertainties published in UK DUETs come from?
UK DUETs draws on three main sources to identify uncertainties about the effects of treatments:

- patients', carers' and clinicians' questions about the effects of treatment
- research recommendations in reports of systematic reviews of existing research and in clinical guidelines, in which knowledge gaps are revealed
- ongoing research, both in the form of systematic reviews in progress and new 'primary' studies

Limitato riferimento a revisioni sistematiche

	May, 2009 (n=29)	May, 2012 (n=35)
Claims that clinical trial is the first to address the question	5	5
Contains an updated systematic review that was used to inform trial design	1	1
Previous systematic review* discussed that was not used in trial design	10	13
Contains references to other randomised trials	4	10
Does not contain references to other randomised trials or claim to be the first trial	9	6

Analysis of reports published in *The Lancet*, *New England Journal of Medicine*, *British Medical Journal*, *Journal of the American Medical Association*, and *Annals of Internal Medicine*.¹⁴ * Systematic review in the topic area of the trial cited.

Table 2: Analysis of Introduction sections of reports of controlled trials published in five medical journals in May, 2009, and May, 2012

SPECIAL COMMUNICATION

What Makes Clinical Research Ethical?

Ezekiel J. Emanuel, MD, PhD
David Wendler, PhD
Christine Grady, PhD

JAMA. 2000;283:2701-2711

Research: increasing value, reducing waste 2

Increasing value and reducing waste in research design, conduct, and analysis

John PA Ioannidis, Sander Greenland, Mark A Hlatky, Mujin J Khoury, Malcolm R Macleod, David Moher, Kenneth F Schulz, Robert Tibshirani

METODOLOGIA

Il disegno dello studio, i metodi e le analisi statistiche sono adeguati?

Mancata adozione di misure adeguate per ridurre i bias in oltre il 50% degli studi

- Inadeguata potenza statistica
- Inadeguata replicazione di risultati preliminari

Methodological issues

- La maggior parte degli effetti terapeutici sono modesti
- E' difficile distinguere gli effetti modesti dai bias
- Nei trial randomizzati effetti del trattamento influenzati da:
 - modalità di generazione della sequenza di assegnazione
 - occultamento della lista di randomizzazione
 - blinding, in particolare se outcome soggettivi
- La ricerca è distorta da numerosi bias



ORIGINAL ARTICLES

Science mapping analysis characterizes 235 biases in biomedical research

David Chavalarias^{a,b}, John P.A. Ioannidis^{c,d,*}

^aCentre de Recherche en Épidémiologie Appliquée, École Polytechnique - CNRS, 32 Bd Victor 75015 Paris, France

^bInstitut des Systèmes Complexes de Paris Ile-de-France, 57–59 rue Lhomond, 75005, Paris, France

^cDepartment of Hygiene and Epidemiology, University of Ioannina School of Medicine and Biomedical Research Institute, Foundation for Research and Technology-Hellas, Ioannina 45110, Greece

^dTufts Clinical and Translational Science Institute and Institute for Clinical Research and Health Policy Studies, Tufts Medical Center and Department of Medicine, Tufts University School of Medicine, Boston, MA 02111, USA

Accepted 22 December 2009

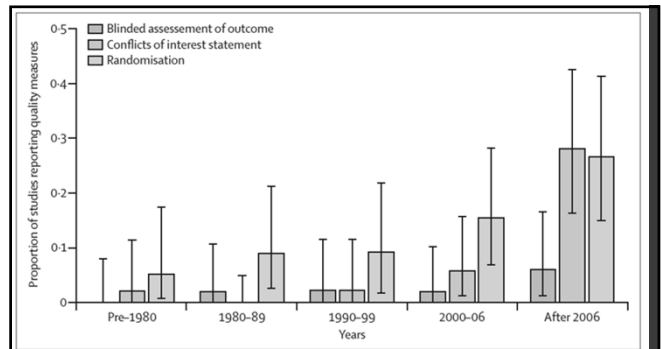
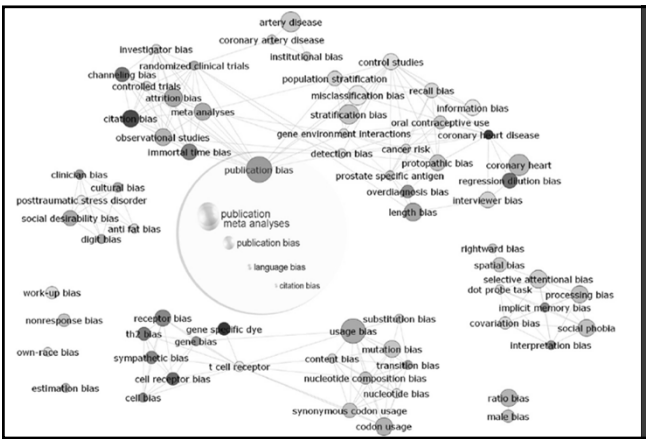


Figure: Trends in three methodological quality indicators for reports of in-vivo studies

Research: increasing value, reducing waste 3

Increasing value and reducing waste in biomedical research regulation and management

Ruiztam Al-Shahi Salman, Elaine Bellef, Jonathan Kagan, Elina Hemminki, Robert S Phillips, Julian Savulescu, Malcolm Macleod, Janet Wisely, Iain Chalmers

BREVITA	METODOLOGIA	REGOLAMENTAZIONE	ACCESSIBILITÀ	USABILITÀ
La priorità della ricerca sono decise in questi dibattiti per identificare le idee nuove?	Il design delle studio, i metodi e le analisi statistiche sono adatti?	La regolamentazione e la gestione della ricerca sono efficaci?	I dati della ricerca sono opportunamente accessibili?	I report della ricerca sono utilizzabili e pronti di base?
Esiste perché un'idea è buona e nessun altro? Sono solo degli studi che si fanno solo perché sono stati finanziati?	Manca o è ridotta la trasparenza del processo di ricerca? I risultati di ricerca sono pubblicati in modo tempestivo e appropriato rispetto al loro valore?	La regolamentazione e la gestione della ricerca sono efficaci? I risultati di ricerca sono pubblicati in modo tempestivo e appropriato rispetto al loro valore?	La ricerca è pubblicata in modo tempestivo e appropriato rispetto al loro valore?	La ricerca è pubblicata in modo tempestivo e appropriato rispetto al loro valore?

SPRECHI DELLA RICERCA

REGOLAMENTAZIONE

La regolamentazione e la gestione della ricerca sono efficienti?

- Corresponsabilità con altre fonti di sprechi e inefficienze
- Sproporzione del processo regolatorio rispetto ai rischi della ricerca
- Processi di regolamentazione e gestione gravosi e sproporzionati rispetto ai reali rischi

Panel 1: An example from Sweden of the bureaucracy involved in applications for central research ethics committee approval

In 2010, a group of researchers in Sweden wanted to pool data from several cohort studies to identify risk factors for subarachnoid haemorrhage. They identified about 20 studies, and spent about 300 h contacting all investigators and getting signed data-sharing agreements and data security processes agreed. Sweden has a central research ethics committee to approve projects. The team recorded the time taken for each step of the approval process. About 200 h of office time was spent on the ethics approval and resubmission process alone. The research ethics committee wanted to see all information that the participants of all cohorts had been given about the purpose of the study. These documents had to be provided as 18 copies and submitted manually. It took the team 6 months to collect all the information sheets from the 20 different cohorts, several of which began recruitment in the 1960s and for which little knowledge about what information was given by whom to whom in the recruitment phase was poor. The research ethics committee eventually had the team advertise in national newspapers about the pooling project, listing all original cohorts so that all individuals who did not want the team to use their data for this project could withdraw their consent for the study. Not one participant withdrew. It took more than 3 years to reach the stage of pooling data from the cohorts, ready for analysis.



Figure 1: Paperwork required for regulatory review of the research described in panel 1

CURRENT OPINION

H1 (Print) Med 2017; 21:103-104
1364-8075/17/0306-103/\$48.00
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Regulation of Therapeutic Research is Compromising the Interests of Patients¹

Iain Chalmers
James Lind Library, James Lind Initiative, Oxford, UK

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Tre motivazioni principali

- Approvazione di protocolli di trial senza alcuna rilevanza clinica
- Approvazione di protocolli di trial con disegno inadeguato
- Incapacità di mettere in atto azioni concrete per ridurre il bias di pubblicazione



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Seeding trials (trial di "disseminazione")

- Finti studi scientifici il cui vero obiettivo non è produrre nuove conoscenze, ma far familiarizzare i medici con l'uso di un farmaco in arrivo sul mercato
- Non sono etici ed espongono i partecipanti a inutili rischi
- N° elevato di centri sperimentali
- Pochi pazienti richiesti per ogni centro
- Compensi spropositati



GIMBE
EVIDENCE FOR HEALTH

Annals of Internal Medicine

EDITORIAL

Seeding Trials: Just Say "No"

Harold C. Sox, MD
Editor

Ann Intern Med. 2008;149:279-280.

Drummond Rennie, MD
Deputy Editor, JAMA

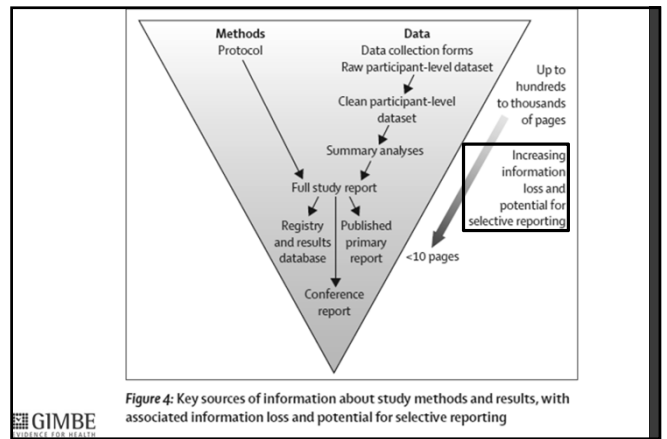
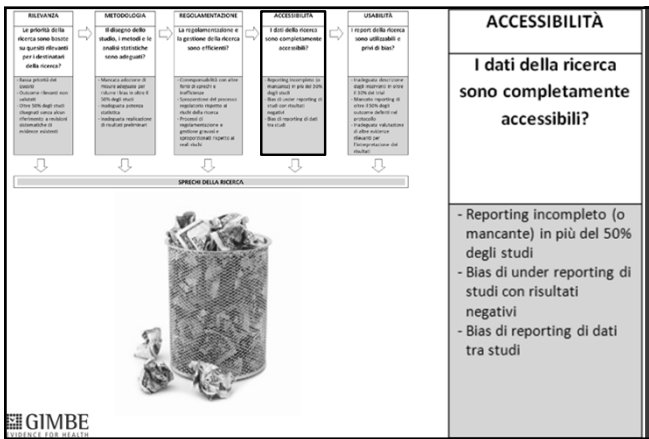
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Research: increasing value, reducing waste 4

Increasing value and reducing waste: addressing inaccessible research

An-Wen Chan, Fujian Song, Andrew Vickers, Tom Jefferson, Kay Dickersin, Peter C Getzsche, Harlan M Krumholz, Davina Ghersi, H Bart van der Worp

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Easterbrook PJ, Berlin JA, Gopalan R, Matthews DR.

Publication bias in clinical research

Lancet 1991;337:867-72

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OPEN ACCESS Freely available online

PLoS MEDICINE

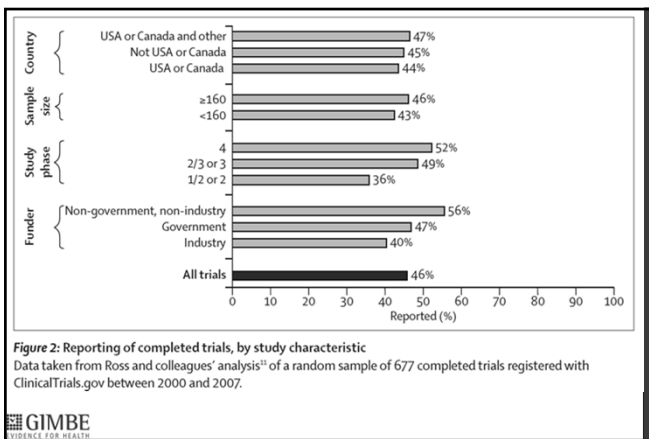
Trial Publication after Registration in ClinicalTrials.gov: A Cross-Sectional Analysis

Joseph S. Ross^{1,2*}, Gregory K. Mulvey³, Elizabeth M. Hines⁴, Steven E. Nissen⁵, Harlan M. Krumholz^{3,6,7}

1 Department of Geriatrics and Adult Development, Mount Sinai School of Medicine, New York, New York, United States of America, 2 HSR&D Research Enhancement Award Program and Geriatrics Research, Education, and Clinical Center, James J. Peters VA Medical Center, Bronx, New York, United States of America, 3 Center for Outcomes Research and Evaluation, Yale-New Haven Hospital, New Haven, Connecticut, United States of America, 4 Amherst College, Amherst, Massachusetts, United States of America, 5 Department of Cardiovascular Medicine, Cleveland Clinic, Cleveland, Ohio, United States of America, 6 Robert Wood Johnson Clinical Scholars Program and Section of Cardiovascular Medicine, Department of Medicine, Yale University School of Medicine, New Haven, Connecticut, United States of America, 7 Section of Health Policy and Administration, Yale University School of Epidemiology and Public Health, New Haven, Connecticut, United States of America

Published September 8, 2009

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10 esempi clamorosi

- Oseltamivir
- Rosiglitazon
- Gabapentin
- TGN1412
- Paroxetine
- Lorcaidine
- Rofecoxib
- Celecoxib
- Ezetimibe-simvastatin
- Vitamin A and albendazole

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Quali sprechi?

EU-funded health research from 1998-2006

- 6 billion of euros → 50% unpublished

Galsworthy MJ et al. Lancet 2012



Quali effetti su morbilità e mortalità?

- Rofecoxib 100.000 heart attacks in 1999-2004 (US)
- Lorcaidine 50.000 deaths per year in 1980s (US)



Occultare i risultati dei trial clinici costa vite umane, spreca denaro e espone i pazienti a sofferenze e rischi evitabili. Il caso della Lorcaidine

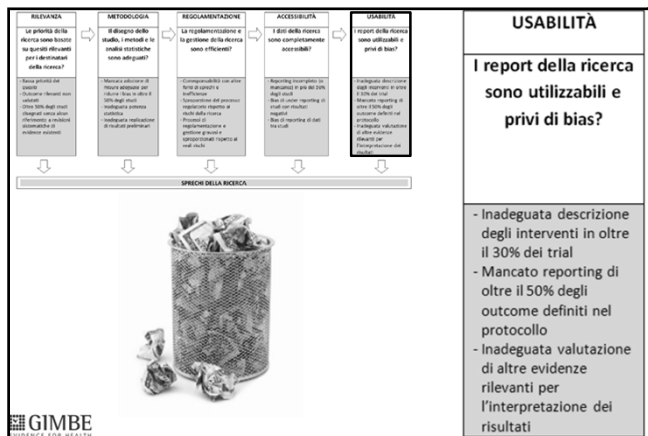
Research: increasing value, reducing waste 5

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



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ANALYSIS

What is missing from descriptions of treatment in trials and reviews?

Replicating non-pharmacological treatments in practice depends on how well they have been described in research studies, say Paul Glasziou and colleagues

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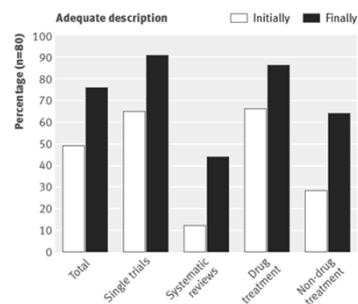


Fig 2 | Percentage of studies with sufficient description of treatment initially (based only on the published paper) and after supplementary information was obtained

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RESEARCH

Poor description of non-pharmacological interventions: analysis of consecutive sample of randomised trials

OPEN ACCESS

Tammy C Hoffmann associate professor of clinical epidemiology, Chrissy Erueti assistant professor, Paul P Glasziou professor of evidence-based medicine

Centre for Research in Evidence-Based Practice, Faculty of Health Sciences and Medicine, Bond University, Old, Australia, 4229

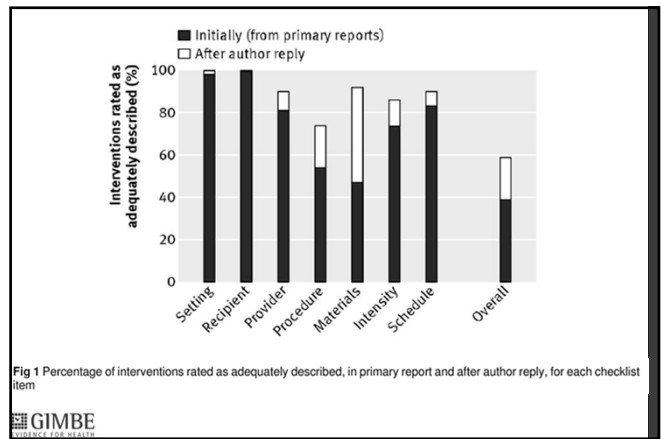


Fig 1 Percentage of interventions rated as adequately described, in primary report and after author reply, for each checklist item



Section	Percentage	Abstract
Abstract	38%, 49%	Trials: missing effect size and confidence interval (38%); no mention of adverse effects (49%) ²
Methods	40-89%, 33% 65%, 31%	Trials: 40-89% inadequate treatment descriptions ^{11, 13} fMRI studies: 33% missing number of trials and durations ³ Survey questions: 65% missing survey or core questions ²⁵ Figures: 31% graphs ambiguous ⁴⁵
Results	50%, 65%, 54%, 92%, 24%, 40%	Clinical trials: outcomes missing: 50% efficacy and 65% harm outcomes per trial incompletely reported ⁸ Animal studies: number of animals and raw data missing ⁷ (54%, 92%); age and weight missing (24%) Diagnostic studies: missing age and sex (40%) ¹⁵
Discussion	50%	Trials: no systematic attempt to set new results in context of previous trials (50%) ⁴⁹
Data	Almost all	Trials: most data never made available; author-held data lost at about 7% per year

Figure 3: Estimates of the prevalence of some reporting problems (see publication column, figure 1). fMRI=functional MRI.

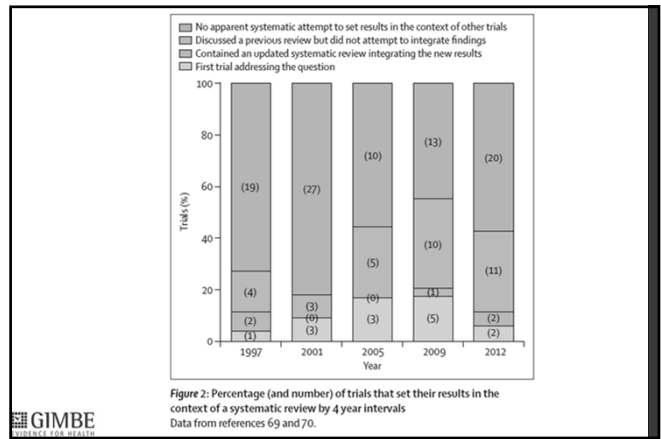


Figure 2: Percentage (and number) of trials that set their results in the context of a systematic review by 4 year intervals. Data from references 69 and 70.



+ AllTrials Registrare tutti i trial
Riportare tutti i risultati

Migliaia di sperimentazioni cliniche non sono mai state pubblicate
Le evidenze scientifiche emerse da questi studi sono perdute per sempre e non potranno essere utilizzate da professionisti sanitari e ricercatori, determinando errate decisioni cliniche, mancate opportunità per migliorare la pratica professionale e inutili ripetizioni di trial clinici.
Oltre 500 organizzazioni (associazioni di pazienti, autorità regolatorie, società scientifiche, istituzioni accademiche) e più di 80.000 persone hanno aderito alla campagna AllTrials perché tutti i trial vengono registrati e tutti i risultati riportati.

Aderisci alla campagna AllTrials

- Scopri di più e firma la petizione: www.alltrials.net
- Invita la tua organizzazione a aderire alla campagna
- Scrivi un articolo, un post, un editoriale o un comunicato per la newsletter della tua organizzazione
- Invita amici, familiari e colleghi a firmare la petizione
- Condividi la campagna su Facebook e twitta su #AllTrials
- Sostieni AllTrials

www.alltrials.net

AllTrials è un'iniziativa lanciata da:



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Sperimentazioni Cliniche
Nuove Sfide per i Comitati Etici
Bologna, 7 novembre 2014

Ridurre gli sprechi e aumentare il valore della ricerca biomedica
Un mandato etico

Nino Cartabellotta
Fondazione GIMBE

CURRENT OPINION

94 J Pharm Med 2007; 21: 339-344
 1364-8027/07/0309-339/\$48.00
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Regulation of Therapeutic Research is Compromising the Interests of Patients¹

Iain Chalmers
 James Lind Library, James Lind Initiative, Oxford, UK



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Tre motivazioni principali

- Approvazione di protocolli di trial senza alcuna rilevanza clinica
- Approvazione di protocolli di trial con disegno inadeguato
- Incapacità di mettere in atto azioni concrete per ridurre il bias di pubblicazione



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Necessarie azioni e reazioni



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Azioni

- Utilizzare checklist standardizzate e condivise a livello internazionale per valutare i protocolli delle sperimentazioni cliniche

SPiRiT ✓


- Richiedere il numero di registrazione del trial per confermare in maniera definitiva l'approvazione delle sperimentazioni cliniche

+ AllTrials

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Reazioni: attenti ai protocolli di trial...

- ...che non fanno riferimento a revisioni sistematiche
- ...con outcome surrogati, di rilevanza clinica non provata
- ...in cui lo sponsor mantiene la proprietà dei dati
- ...vs placebo in presenza di trattamenti efficaci
- ...con disegno di non inferiorità
- ...di disseminazione (*seeding trials*)



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Red flags: survey

Qual è il rischio che i protocolli di sperimentazioni cliniche con una o più *red flag* alimentino gli sprechi della ricerca, senza migliorare la salute di cittadini e pazienti?



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Essay

Why Most Published Research Findings Are False

John P. A. Ioannidis Published: August 30, 2005

1,152,733	1,413	13,400	10,526
VIEWS	CITATIONS	SAVES	SHARES

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PLOS MEDICINE

Essay

How to Make More Published Research True

John P. A. Ioannidis^{1,2,3,4*}

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