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Publication Bias: Identification of the Internet Community

UNCOVER project deliverable D3.1 Part A

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The main goal of task 3.1 (Part A) was to identify the 'publication bias' community on the internet by means of social network analysis. Measures were established to identify organisations with key positions in this community network to finally identify specific roles of member organisations of the community. The analysis revealed that new and sometimes unconventional types of organisations are currently gaining key position on the internet. Besides blogs, we identified numerous e-journals, social networks, and video platforms, like YouTube with videos about conference presentations, discussion forums and other new services indicating a structural change on the science and publication infrastructure.

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Publication Bias: Identification of the Internet Community

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1 Executive Summary

The main goal of task 3.1 (Part A) was to define the ‘publication bias’ community on the internet by means of social network analysis. Measures were established to identify key positions and roles of organisations within the community network to finally identify prominent member organisations. In this context, the term ‘organisation’ refers to the responsible entity behind a website. A community identification agent (CIA) was used to systematically locate and archive content and activities relating to ‘publication bias’ such as conferences, pressure group sites, standardization organisations, public forums and blogs with publicly accessible sites. The overall aim was to gain a deep insight into the community structure of the publication bias community on the internet through social network analysis, web crawling and site statistics.

About 220,000 internet sites were scanned for ‘publication bias’ and related content. About 17,000 sites were identified as being part of the ‘publication bias’ community network on the internet. These sites are operated by 483 website providers. Based on these findings, a network analysis was carried out to explore the community structure. Finally, organisation types were classified according to the services they offer on their internet sites. This revealed that new and sometimes unconventional types of organisations are currently gaining importance in the ‘publication bias’ community. Blogs, e-journals, social networks, and video platforms, like YouTube, with videos about conference presentations, discussion forums and other new services can be considered potential sources for information about the current discussion on publication bias.

To address the discussion on publication bias in new media, new forms of information management are necessary. The automatic identification of epistemic communities is only the first step in a direction of automatic knowledge management. It will be a competitive advantage in the publication bias community to use automatic issue management systems with issue identification, issue tracking, weak signal detection for emerging issues and other. Although automatic issue management cannot substitute the manual research, it can support researchers with respect to their information management. One of the main results of task 3.1 (Part A) is a list with organisations (identified by domain name) and their relating network position. The individual position of an organisation can be seen as an indicator for whether the organisation tends to be either an information hub for the community (a site with numerous outbound links) or whether the organisation is accepted as an authority by the community (a site with numerous inbound links). The complete data set is presented in the Appendixes, comprising the following tables:

- List of authorities in the publication bias community
- List of hubs in the publication bias community
- List of identified domains with organisation names
- List of domains with organisation type
- List of identified literature

2 Introduction

2.1 Background

The UNCOVER project is a direct contribution to overcome non-publication of clinical studies that have been designed and executed as randomized controlled trials (RCTs).

UNCOVER's aim is three-fold:

- to apply established and develop novel, solid, and useful methods for fact-finding and interventions into the socio-economic system defined by causes and sources of the publication bias;
- to engage with stakeholders and identify strategies, barriers, and facilitating factors associated with the publication bias and its consequences; and
- to synthesize lessons learned and recommend feasible measures to deal with the publication bias.

In task 3.1 part A stakeholders in the publication bias community are identified on the internet. In addition to the stakeholder identification in task 3.1 B, based on scientific publication data bases, the internet as source has more information about non scientific stakeholder. Therefore task 3.1 part A and B are in a way complementary.

Task 3.1 part A is only the automatic scanning for stakeholder content about publication bias on the internet. Later in the project the internet content of specific stakeholder will be analysed more in detail, to identify strategies, barriers and facilitating factors. Task 3.1 part a will provide an extensive list of relevant urls and pdfs to support this analytical process.

2.2 Objectives

For the last years the so-called 'new media' have become established features on the internet offering platforms for communication and information exchange, such as online university lectures, conference presentations and video streams. In this work package (Task 3.1) we aimed at identifying communities, networks and key players in the field of 'publication bias' and to reveal the presence of a 'publication bias' community on the internet.

For community identification, the intelligent agent for community identification CIA is used to systematically locate and archive content and activities relating to conferences, pressure group sites, standardization organisation, public forums and blogs with public accessible sites.

Thematically relevant organisations (identified by domain name) and their relating network position are compiled in a list. The individual position of an organisation can be

seen as an indicator for whether the organisation tends to be either an information hub for the community or whether the organisation is accepted as an authority by the community.

2.3 Organisation of This Report

After presenting the objectives, the methods are discussed in detail for the support action, developed in this report. As the search strategy is critical for the results, this is discussed in detail.

Results from the internet search, based on search engine statistics, are presented to get a brought overview about the publication bias community. The results from site statistics, web crawling and social network analysis provide insight into the community structure of the publication bias community on the internet.

Finally the conclusions are summarized and implications for future issue management efforts are discussed. The complete data set is presented in the Appendixes.

3 Methods

The ‘publication bias’ community on the internet can be seen as a kind of epistemic community in the sense that members of the community cooperate in knowledge generation for their personal interest, their organisation, the community or a wider public. Even if there is no formal membership most of the community members have some similar interests, related to knowledge generation, knowledge distribution and knowledge preservation. Therefore the ‘publication bias’ community on the internet can be interpreted as an ‘epistemic’ community, as we will be done in the following. To gain deeper insight into the structure and composition of the community the following methods are applied:

- Compilation and analysis of site statistics
- Automated, methodical search of relevant websites through ‘web crawling’ and download of relevant contents
- Social network analysis on the downloaded contents

In general, scanning the WWW for identification of epistemic groups is a resource-intensive and expensive task. Google indexes about 1.3 Trillion sites with approximately 20 Trillion links. Consequently, to render the process of web crawling more targeted and avoid resource intensive searches and analyses of irrelevant contents, it is necessary to first explore and categorize the potential content about publication bias on the internet. Basically, there are two ways to find out what content concerning publication bias is visible on the WWW:

1. To use statistics and tools available for searching the web, such as Google Trends, Alexa, and others.

2. To use site statistics and social network analysis to identify the community: Starting by identifying relevant sites and go on to the next site and on again to the next site to check whether these new sites contain content relevant to publication bias; all relevant data is collected from these sites.

Both approaches have advantages and disadvantages. On one hand, Google results (from Google Trends) can be accessed easily and the method is resource-effective. On the other hand, Google does not provide much detail about how these results are gained and whether these results are reliable or not. The main disadvantage is, however, that results listed by Google are cut off after 1,000 sites and therefore it is impossible to get the whole community structure. Consequently, to get the best out of our two approaches we applied a combination of aspects of both approaches to identify and describe the publication bias community on the internet.

As the Google search statistics is straight forward and easy to understand, we will concentrate on site statistics and web crawling in this methodical discussion. Because of the vast total number of sites and files available on the internet, it was assumed that the majority of the files on the web servers are irrelevant for the issue under consideration. Consequently, the first step in the analysis was to identify the relevant subset of sites and contents on the WWW in an effective manner. To this end, a community identification agent (CIA) was developed. Figure 1 gives an overview of the overall system architecture of the CIA.

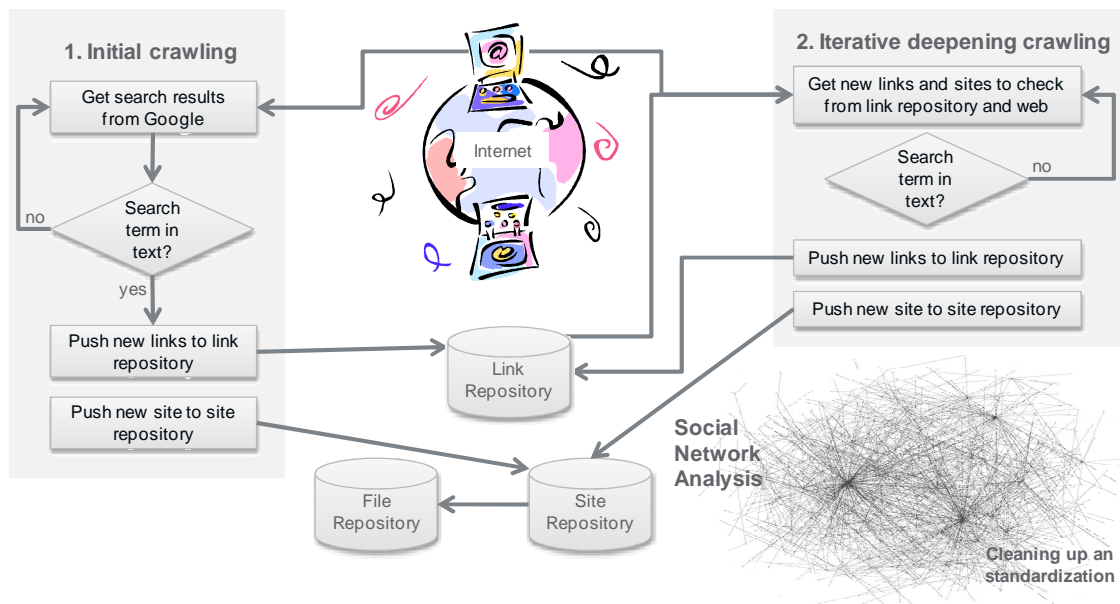


Figure 1: System architecture of the CIA agent (Source: AIT)

The CIA consists of two stages: (1) initial crawling and (2) iterative deepening crawling.

1. In the initial crawling stage, the agent loads search results from a search engine such as Google, which are considered as relevant for the identification of the publication bias community. Then the agent follows each link, which has been extracted from the search engine result list texts and downloads the corresponding text information. In case that this text contains the search string, the CIA extracts title, keywords, main text and writes the

results to this site repository. Furthermore, the CIA extracts all links from this as relevant identified site and pushes these new links to the link repository.

2. In a second stage, mainly concerned with data acquisition, the agent iteratively follows all extracted links and, again, extracts the site attributes while testing whether the main text of the site contains the search string. To prevent the agent from crawling errors such as ‘black holes’¹ for internet crawler, the agent will not download more than about 10,000 documents from a single domain. Finally, all text results are grouped by domain, so that there is a consistent domain - text/date relation in the database. This database forms the data source for a social network analysis.

Based on the collected dataset, the community identification agent (CIA) uses hyperlinks from already identified community sites to find new community sites. By using hyperlinks, the agent makes use of wisdom of the crowds in a way that it uses links as expression of trust from the source site to the link target site. If potentially relevant text corpus on the internet contains hyperlinks, the text corpus can be thought of as a directed network, with authorities and hubs. An authority node is a site with numerous inbound links and a hub is a site with numerous outbound links. The detailed results from this social network analysis are presented in Chapter 5.

3.1 Development of Search Strategy

It is crucial for the whole community identification process to have a relevant dataset. Relevant means that only sites dealing with the topic ‘publication bias’ are compiled in the dataset and that almost all of these sites are in the dataset. Therefore, some analytical considerations were conducted to identify a search strategy that covers almost all of the relevant sites and leave out irrelevant sites. Depending on whether the search term(s) are set phrases and their usage restricted to specific areas or not, identifying an appropriate search strategy can be challenging for some topics, and easier for others. The following table summarizes the results (number of hits) that can be expected from different search strategies for the publication bias community and discusses relevance measures.

Table 1: Google search statistics, related in some kind to the topic ‘publication bias’

id	Query	Google hits	Relevance
#1	"Publication Bias"	514,000	Plausible
#2	"publication bias" meta-analysis	349,000	Subtopic
#3	"publication bias" clinical trials	208,000	Subtopic
#4	"publication bias" systematic reviews	262,000	Subtopic
#5	"publication bias" positive	250,000	Subtopic
#6	"publication bias" studies	455,000	"studies" is no restriction
#7	"publication bias" clinical trial	264,000	Subtopic
#8	"publication bias" trial	358,000	Subtopic
#9	publication bias	15,000,000	Not a topic
#10	"Clinical Trial"	30,100,000	Other topic
#11	"Clinical Trial" publication bias	1,690,000	Possible alternative
#12	"Clinical Trial" bias	2,870,000	Other topic

¹ For a detailed description see <http://stackoverflow.com/questions/4512936/what-techniques-can-be-used-to-detect-so-called-black-holes-a-spider-trap-wh>

id	Query	Google hits	Relevance
#13	Evidence-based medicine	31,800,000	Not a topic
#14	"Evidence-based medicine"	5,600,000	Other topic
#15	"Evidence-based medicine" publication bias	355,000	Subtopic maybe different to publication bias
#16	"Evidence-based medicine" bias	399,000	Subtopic maybe different to publication bias
#17	"Randomized controlled trial"	7,140,000	Other topic
#18	"Randomized trial"	5,350,000	Other topic/ may subtopic
#19	"randomized comparative trial"	152,000	Not a common term
#20	"publication bias" medicine	496,000	Is a hint that almost all publication bias (pb) sites are from medicine
#21	"publication bias" biology	189,000	Is a hint that pb sites are not associated with biology as much as with medicine
#22	"publication bias" politics	631,000	Other topic: Publication Bias in Political Science
#23	"publication bias" pharmaceutical industry	66,900	Subtopic
#24	"publication bias" pharma	114,000	Subtopic
#25	"publication bias" industry	161,000	Subtopic
#26	"Sesgo en publicación científica"	4,130	Topic in Spanish language
#27	"Biais de publication"	28,000	Topic in French language
#28	"Publikationsbias"	13,800	Topic in German language
#29	"Publicatiebias"	1,260	Topic in Dutch language
#30	"抽屉问题"	21,100	Topic in Chinese language
#31	"出版バイアス"	4,400	Topic in Japanese language

Source: AIT, search statistics from Google

Google indexes almost all sites on the internet and offers some kind of search statistics on its results' list. This approach illustrates what can be expected when using a specific search strategy for crawling. Even if the total number of sites indicated can usually be considered to be much too high (because of 'black hole' sites and false positive sites for technical reasons), it is a good indicator for the potential size of a topic-specific network.

In a test run, we considered each site on the internet containing the phrase 'publication bias' as relevant. A search in Google, on Yahoo and the Bing search engine resulted in 514,000, 208,000 and 144,000 hits, respectively. These results demonstrate that statistics concerning search results on the internet are not as precise as expected and reported, as the results statistics are very much depended on the methods used. However, a general user will often only screen the first few results, anyway. This is very important to consider for the understanding of the user's search strategies on the internet. General users take the search results usually only as a starting point for a semantic search, which they process like a snowball system, in which they most likely will click on a link, when they expect relevant content behind the link. In an abstract sense, the community identification agent works quite similar to the human scanning and we expect that this behaviour is cost-effective and efficient. Nevertheless, it is very time consuming for the user to track manually a larger thematic community. In contrast, the agent can scan issue developments with high speed and thus in a short time period. A disadvantage is, however, that the agent cannot understand the real semantic meaning of the sites it is crawling. Nevertheless, intelligent search strategies can overcome partly the lack of understanding of real semantic meaning. Therefore, this extensive testing of different search strategies as demonstrated above is helpful. Finally, the reasons for choosing a specific search strategy will be based on statistical reasons rather than on semantically reasons.

The result statistics for different search strategies are summarized in Table 1. Each colour is related to a specific cluster. The first cluster is marked with light blue. The search results statistics from this cluster show that various word combinations in addition to the main

phrase ‘publication bias’ deliver only subnets of the whole community, and that the overall network community is covered by the main phrase. The second cluster of possible search strategies, with synonyms and statistically similar words (identified by Google Trends) is marked in green. The result statistics and the semantic interpretation of the search results point to the direction that the search strategies will deliver too many irrelevant results (mainly results from neighbour domains). The third cluster, marked in blue, combines the main phrasem and terms with a much more general meaning than the main phrasem. The results statistics show that it is possible to increase the search results by using these terms, although the search results are less focused than by using just the main phrase. Finally, the orange cluster summarizes the search results statistics from different languages. The small number of results in other languages indicates that ‘publication bias’ is a technical term that is used in different countries and different languages from a very specific group of experts.

In addition to the typical search strategies, as given in Table 1, which are known as being effective on internet search, Table 2 summarizes search results statistics from search strategies, which are known to be successful in literature databases, and are based on the search strategies used in WP 2 (bibliometric analysis of publications). The results are evaluated according to the relevance indicators from the internet search strategy discussion.

Table 2: List of database optimized search strategies from WP 2, applied to internet search

Search	Query	Google hits	Relevance
#1	"Publication Bias"	514,000	Precise
#2	"Bias Epidemiology"	48,800	Only small part, not precise
#3	"Selection Bias"	1,540,000	Other topic
#4	"Prejudice"	69,700,000	Much too broad, other topic
#5	"bias"	218,000,000	Much to broad, other topic
#6	Search #1 OR #2 OR #3 OR #4 OR #5	No sense	
#7	"Research standards"	365,000	Other topic
#8	"Publishing standards"	111,000	Other topic
#9	"Quality Control"	93,500,000	Much too broad, other topic
#10	"Writing standards"	457,000	Other topic
#11	"Journalism Medical standards"	7,770	Not a topic
#12	Search #7 OR #8 OR #9 OR #10 OR #11	No sense	
#13	Search #6 AND #12	Not available	
#14	"Registries"	21,400,000	Not a topic
#15	"Evidence-Based Medicine"	5,610,000	Other topic
#16	"Clinical Trials"	51,200,000	Not a topic, but a scientific sector
#17	"Review Literature"	561,000	Other topic
#18	"Practice Guidelines"	5,280,000	Other topic
#19	"Meta-Analysis"	11,900,000	Not a topic, but a sector
#20	"Periodicals"	50,200,000	Not a topic, but a sector
#21	Search #14 OR #15 OR #16 OR #17 OR #18 OR #19 OR #20	No sense	
#22	Search #13 AND #21	Not available	

Source: AIT, Search strategies from WP 2, search statistics from Google

As a main result, most of the search strategies for database systems are much too brought for searching the internet. No search strategy resulted in more distinct output than the top one from all the internet optimized search strategy.

As a main conclusion from the search strategy statistics and from an internal discussion about possible search strategies in an UNCOVER workshop, searching for the phrasem ‘publication bias’ is the best search strategy for community identification in the domain of publication bias. Therefore this phrase was used to start the internet screening with CIA.

4 Results from internet search statistics

As already discussed in the Methods chapter, Google offers tools to access their statistics information about search pattern and search behaviour. We used Google Trends and Google Insights to get a brought understanding of what the publication bias community is about. It is very important to have the differences between the community identification with site statistics and the community identification with search statistics in mind.

Whereas site statistics use measurements from internet sites to identify the community, search statistics use measurements from the search pattern to describe the community. The following figure shows the development of the topic 'publication bias' over time, as index. According to Google, the index ‘is scaled to the average search traffic for 'publication bias' (represented as 1.0) during the period from 2004 to 2012.²

The search statistics are a very volatile indicator for the ‘interest in the topic’ over time. Figure 2 indicates that in 2005 a new paradigm or at least a new public awareness concerning publication bias’, which caused a sudden increase in searches for ‘publication bias’. From then on, the number of searches for ‘publication bias’ remained stable but volatile until the present. A forecast by trend extrapolation shows that the search pattern is expected to remain stable over the next years.



Figure 2: Search statistics for ‘publication bias’ over the time, Index. (Source: AIT, Data Google Trends)

The geographic distribution of search requests for ‘publication bias’ shows that there is a remarkable interest for ‘publication bias’ in UK and USA (Figure 3). The site statistics indicate that this is not only a language issue.

²

<http://support.google.com/trends/bin/answer.py?hl=en&answer=87282&ctx=cb&src=cb&cbid=1vvr8ubxsfldt>

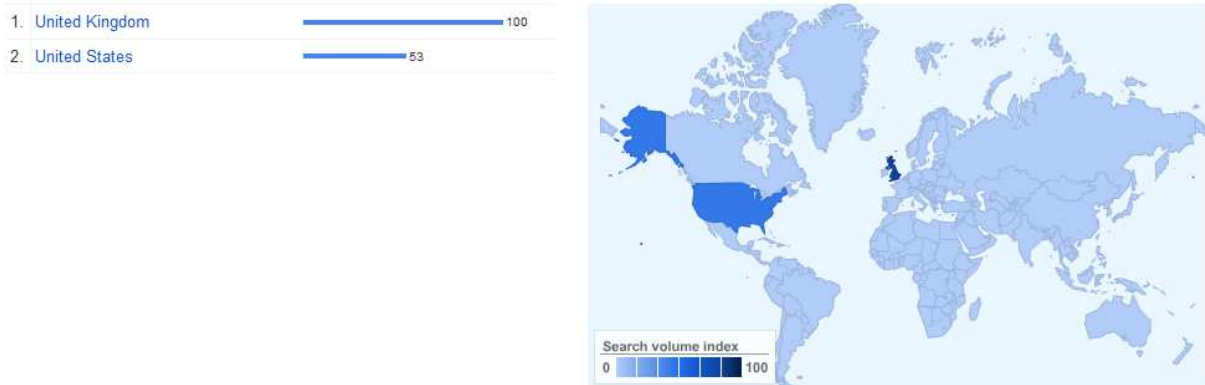


Figure 3: Geographic distribution of search statistics for ‘publication bias’, Index. (Source: AIT, Data Google Trends)

To check whether this tendency and the geographic distribution correlate with other nearby topics, ‘Clinical Trial’ and ‘Evidence-based medicine’ were tested. Both phrases are broader topics with much more heterogeneous datasets. A surprising finding was that ‘clinical trial’ is a topic with decreasing searches (Figure 4).



Figure 4: Search statistics for ‘clinical trial’, over time, Index. (Source AIT, Data Google Trends)

The geographic distribution of searches on ‘clinical trial’ (Figure 5) are broader than the searches on ‘publication bias’. Given the fact that clinical trials are used in a broader context this is not surprising. More interestingly, while India has a large amount of search requests for ‘clinical trial’ (Figure 5), search requests for ‘publication bias’ are moderate in comparison to the UK and USA (Figure 3).

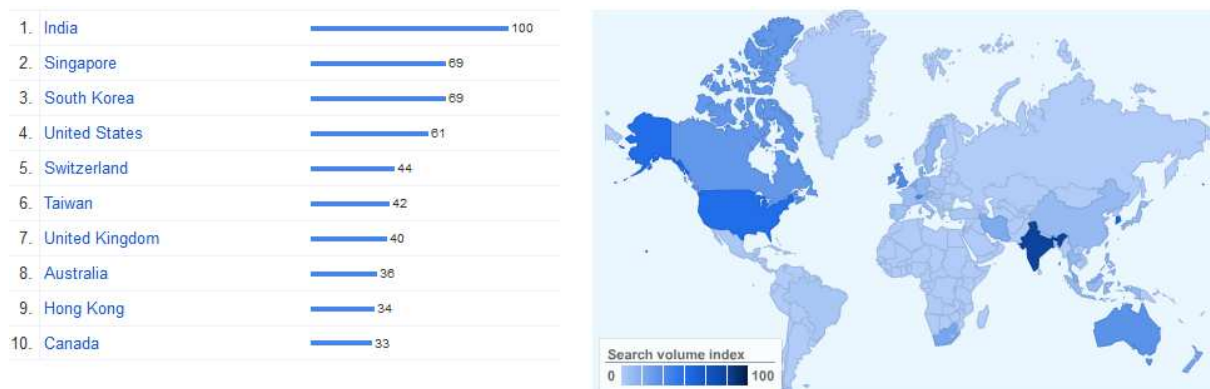


Figure 5: Geographic distribution of search statistics for ‘clinical trial’, Index. (Source: AIT, Data Google Trends)

The search statistics about ‘evidence-based medicine’ indicate that the number of searches has been declining over the last six years (Figure 6). It is not possible to derive an explanation for this without additional information. Usually, such a pattern is correlated to public discussions, which are better reflected in news reports than in scientific reports. However, without knowing the amount of scientific publications, this interpretation can only remain speculative here.



Figure 6: Search statistics for ‘evidence-based medicine’, over time, Index. (Source: AIT, Data Google Trends)

Figure 7 illustrates the geographic distribution of searches for the term ‘evidence-based medicine’. It shows that there is a strong concentration on English speaking countries, such as Canada, USA and UK. Given the fact that English technical terms are usually used also in non-English speaking countries, there is obviously a specific geographic interest.

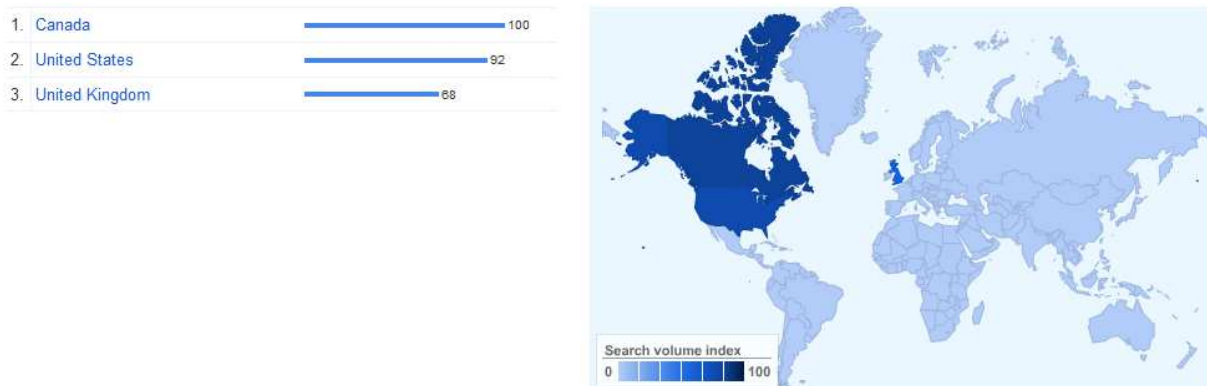


Figure 7: Geographic distribution of search statistics for ‘evidence-based medicine’, Index. (Source: AIT, Data Google Trends)

To summarize the discussion above it can be stated that:

- the topic ‘publication bias’ reached a remarkable public awareness in 2005;
- ‘publication bias’ has remained in the public awareness since 2005;
- the search count for neighbour / related topics ‘clinical trial’ and ‘evidence-based medicine’ decreased between 2004 and 2012; and
- ‘clinical trial’ and ‘evidence-based medicine’ evoke specific geographic interest.

The main drawback from Google search statistics is that absolute figures are not available. In addition, Google has an unspecified number of manual changes in the search index and in their statistical figures. The site statistics can be used to overcome these drawbacks and give a better quantification of the ‘publication bias’ community.

5 Results from web crawling and social network analysis

As described in the methods chapter, the community identification agent (CIA) uses hyperlinks from already identified community sites to find new community sites. By using hyperlinks, the agent makes use of wisdom of the crowds in a way, that it uses links as expression of trust from the source site to the link target site. As our potential text corpus on the internet contains hyperlinks, the text corpus can be thought of as a directed network, with authorities and hubs, whereas an authority node is a site with a lot of inbound links and a hub is a site with a lot of out bound links.

The agent identified about 250,000 links on sites containing the phrase ‘publication bias’. From these links about 220,000 were checked against the search strategy of CIA, by downloading the site, parsing the html and checking whether the term ‘publication bias’ was in this text. About 17,000 sites were identified and visualised in a network graph (Figure 8). The network graph displays only sites with links to other relevant sites. Links to sites which do not contain the phrase ‘publication bias’ were removed to avoid that the larger part of the graph becomes black.

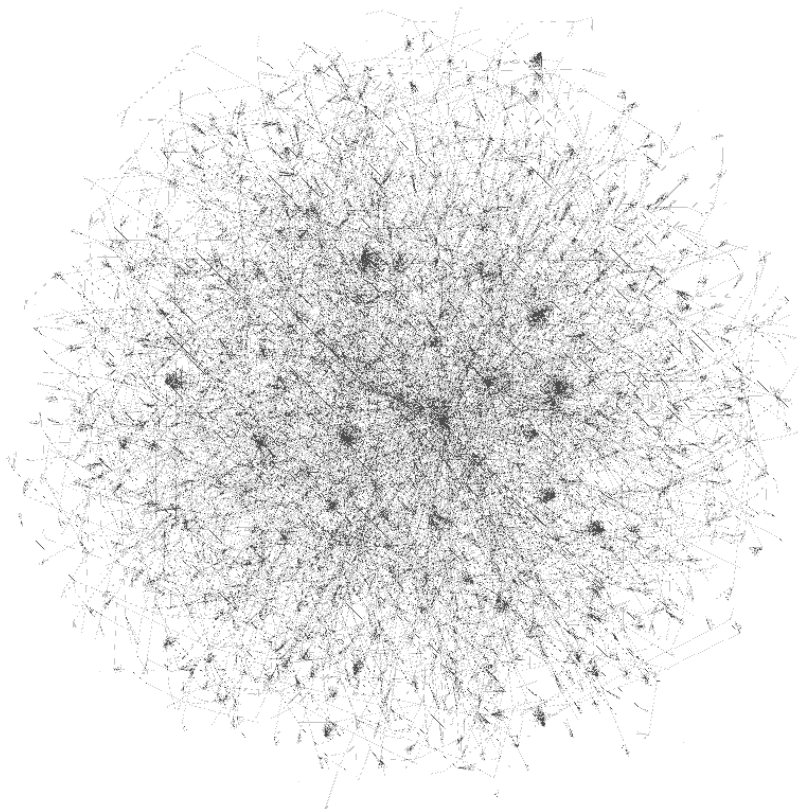


Figure 8: Network of publication bias community sites. (Source: AIT)

The average site in the network has about 15 links to other relevant sites. A small amount of sites has a much larger amount of inbound and outbound links. However, to identify the community it is better to aggregate the network in a way such that sites from the same domain count for the same node.

For each domain it is possible to identify a specific organisation that is responsible for the content supplied by the web server from this domain. The domain-based network is another interpretation of the site statistics data with a reduced amount of network nodes. The edges are aggregated and visualized in such a way that a bolder edge represents a higher amount of hyperlinks (Figure 9).

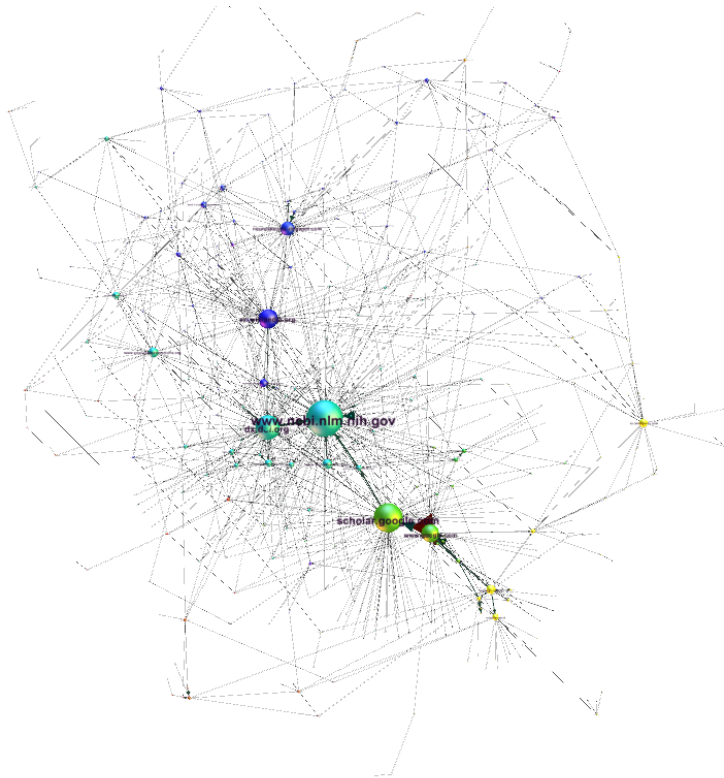


Figure 9: Network of domains (Source: AIT)

This network gives an overview of the identified epistemic community and its overall network structure. As the network is directed, community authorities and community hubs can be identified. For a network with 483 nodes it is better to present the authorities and hubs as a table than as a network picture.

However, the domain concept has some problems with country domains and functional domains. Both can be a reason for separate counting of the same legal organisations, which we tried to avoid in general. Large companies like Amazon, for example, have country specific domains like amazon.at for Austria and amazon.de for Germany. Something similar applies for service specific domains. For example, Google has the domain maps.google.com for its map service and scholar.google.com for its e-library service. To discover these services and countries, we did not aggregate across specific services and across specific countries in the top lists, even if some of the very large organisations are twice in our top list.

Table 3 shows the top 10 authorities in the community network (organisations with high number of inbound links, as an expression of trust from the community). More insights into the top authorities and a complete list of all authorities can be found in Appendix A. In addition, Appendix C contains a list of all identified domains with their corresponding

organisation name and Appendix D provides a list with domains and their corresponding actor type.

Table 3: Top 10 list of authorities in the publication bias community on the internet

Rank	Domain	Number of inbound links
1.	www.ncbi.nlm.nih.gov	672
2.	maps.google.com	521
3.	www.google.com	376
4.	dx.doi.org	314
5.	scholar.google.com	256
6.	www.youtube.com	203
7.	translate.google.com	131
8.	www.google.at	109
9.	neuroskeptic.blogspot.com	94
10.	scholar.googleusercontent.com	90

Source: AIT

The top authority domain identified is www.ncbi.nlm.nih.gov, which is a library specialized in biology, medicine and similar scientific topics, followed by maps.google.com and www.google.com. To understand the second and third place it is important to have in mind that we did not search for the links in general. Having maps.google.com on the second place means that 521 publication bias sites link to content about publication bias on maps.google.com.

Table 4 presents the top 10 hubs in the publication bias community network. Again, on the first and second place are service specific domains from Google. It is quite obvious that www.google.com contains links to publication bias content. However, to avoid misinterpretation it is important to bear in mind that these links to the Google WWW service were extracted from publication bias sites. This means that these sites link to Google search results about publication bias.

Table 4: Top 10 list of hubs in the publication bias community on the internet

Rank	Domain	Number of outbound links
1.	www.google.com	1016
2.	scholar.google.com	388
3.	dx.doi.org	379
4.	www.ncbi.nlm.nih.gov	370
5.	books.google.com	238
6.	pubmedcentralcanada.ca	194
7.	translate.google.com	189
8.	www.google.at	168
9.	neuroskeptic.blogspot.com	148
10.	scholar.googleusercontent.com	145

Source: AIT

To complete the results from internet crawling, the Table 5 gives an overview about the top 10 results from Google, Bing and Yahoo. The use of different popular search engines reveals a wide variance in overall results, the top ten results, however, are very similar and reflect the results of 30 years of search engine optimization. Each tested search engine delivers Wikipedia on the first position, if a Wikipedia article is available, followed by a number of company web sites and topic related scientific discussions. The reason for this is that modern search engines prioritise certain types of content. Obviously, Wikipedia gets a specific prioritisation because of its well-known high quality content.

Table 5: Top 10 sites from Google, Bing and Yahoo

	Google 519,000	Bing 144,000	Yahoo 208,000
1	en.wikipedia.org	de.wikipedia.org	en.wikipedia.org
2	www.cochrane-net.org	nullresults.org	www.cochrane-net.org
3	www.numberwatch.co.uk	uk.ask.com	www.numberwatch.co.uk
4	www.meta-analysis.com	www.vfa.de	www.nature.com
5	www.nature.com	www.nature.com	www.cochrane-net.org
6	news.yahoo.com	www.esowatch.com	www.meta-analysis.com
7	www.bmj.com	en.citizendium.org	www.experiment-resources.com
8	www.medicalnewstoday.com	psychology.wikia.com	www.meta-analysis.com
9	www.plosmedicine.org	www.bioportfolio.com	www.skepdic.com
10	www.economistsdoitwithmodels.com	www.experiment-resources.com	en.citizendium.org

Source: AIT, Data from Google, Bing and Yahoo

Not so obvious is a specific prioritisation for a commercial content. Usually search engines strictly deny any prioritisation of paid content. However, in the top ten of the search engines are more companies than in our top ten lists, which suggests that the listing is not based on classical Google page rank. Since our sample is too small to prove this and since it was not the project goal to prove this, we can provide here only a hint than a resilient result.

Some additional information about a commercial prioritisation can be found by looking on an example for user statistics from some domains. The site www.cochrane-net.org, which contains teaching material for reviewers, is top listed on Google and Yahoo. Nevertheless, the count of unique users for www.cochrane-net.org is so small that it is not even listed in Google Trends for websites.

Even though www.cochrane-net.org is not listed in Google’s site statistics, the domain cochrane.org is listed. Cochrane is a prominent organisation in the ‘publication bias’ community with high reputation. According to Google there are about 1,180 sites linking to cochrane.org and 1,270 sites linking to www.thecochranelibrary.com. The domain cochrane.org has about 13-14,000 unique visitors per day, as Figure 10 shows. With respect to this it is very interesting that all three search engines list www.cochrane-net.org in their top-ten list and not cochrane.org.

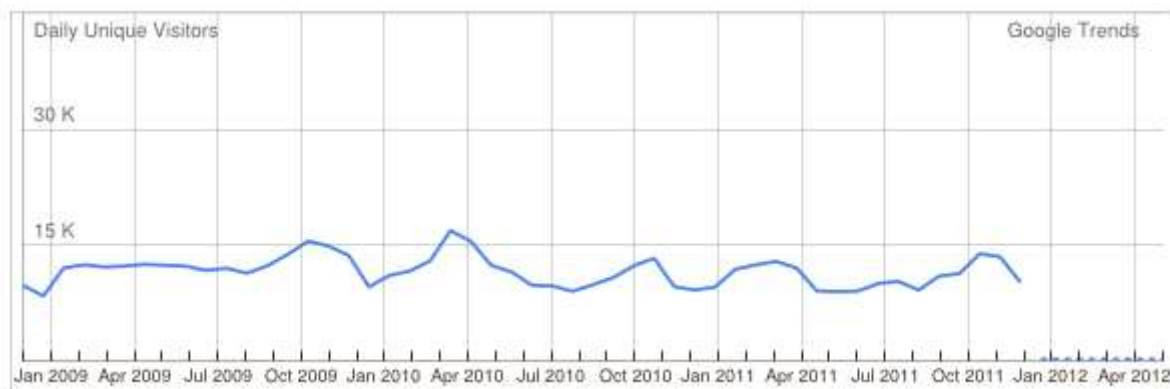


Figure 10: Web usage statistics for cochrane.org. (Source: Google)

However, not many of the in-linking sites to cochrane.org and www.thecochranelibrary.com on Google contain the term ‘publication bias’. This explains why our CIA did not top list these domains.

The top site identified, www.ncbi.nlm.nih.gov, is large enough so that site-specific statistics can be found on Google. According to this, 3,490 sites link to www.ncbi.nlm.nih.gov and have an average of about 1 to 2 Mio daily unique visitors (Figure 11).

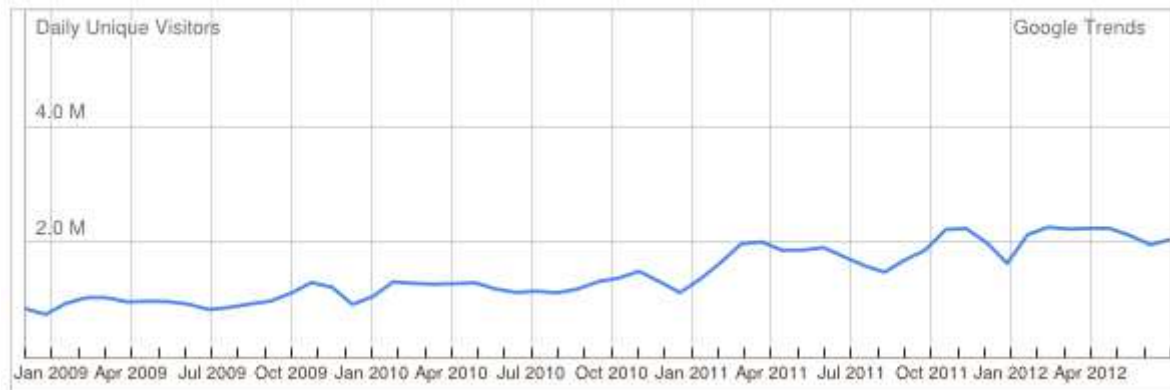


Figure 11: Web usage statistics for: www.ncbi.nlm.nih.gov. (Source: Google)

This large community-specific site is not listed in the search engines top list. Both, the listing of www.cochrane-net.org and the not listing of www.ncbi.nlm.nih.gov are additional hints that the prioritisation on search engine results cannot be explained completely by the official page rank.

As a final part of the data acquisition, CIA identifies PDFs with publication bias in the full text on the internet (see Appendix E). Figure 12 shows the timeline of these publications.

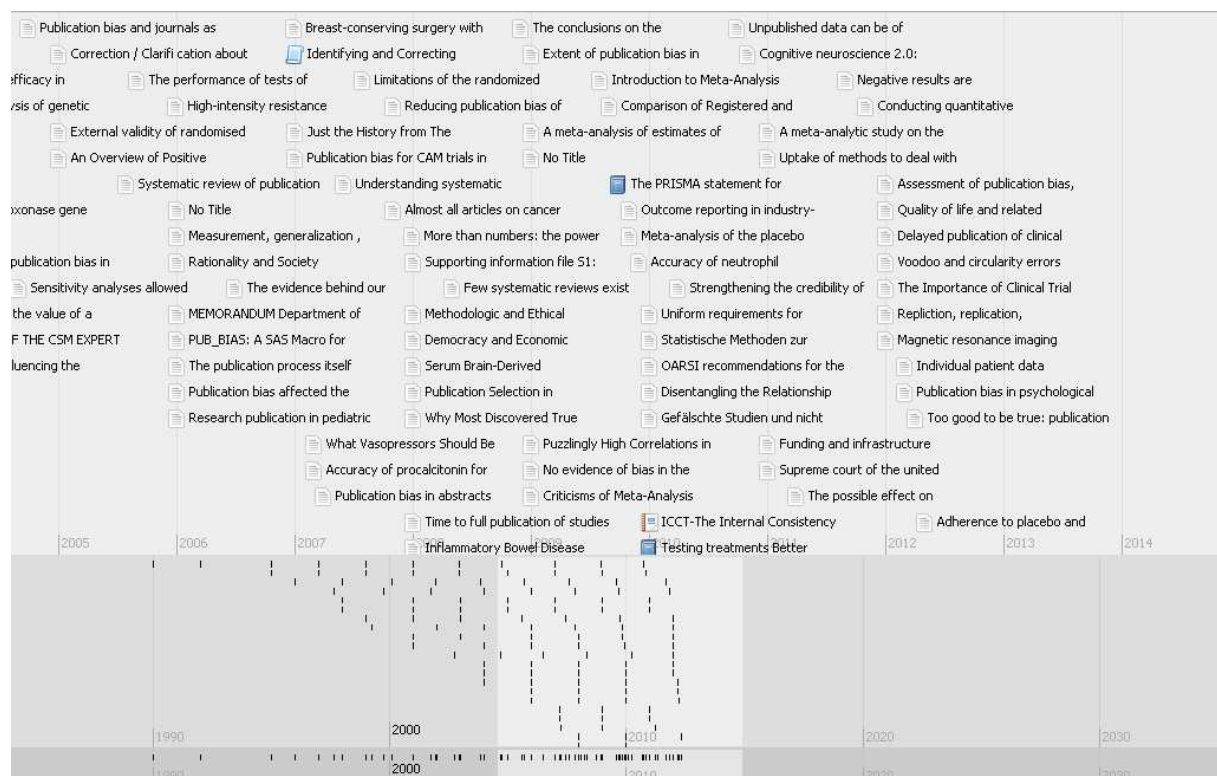


Figure 12: Timeline of publication bias literature identified in the WWW (Source: AIT)

In contrast to the timeline from the search statistics, Figure 12 indicates that publications on the topic ‘publication bias’ are available from 1990 onwards. However, their number has been increasing only for the last few years. As this is only a statistical result on publication date from a small sample of PDFs, which are available for free download, the results should not be over interpreted. Additional information about this will come from the bibliometric analysis (D3.1 Part B).

Finally, organisations which belong to the domain names were identified by manual web research. Based on the descriptions on the WWW, these organisations are classified by the type of service offered (Table 6).

Table 6: Classification of organisations according to their web service

Web Service Type	Number of Organisations
Blog	120
Journal	106
Content Provider	47
Library	40
University	26
Homepage	19
Enterprise	14
Magazine	13
News	12
Publisher	11
Forum	9
Research	9
Collaboration	9
Research Network	8
Internet Service	8
NPO	5
Social Network	4
Advisor	3
Clinic	2
UNO	2
Press Release	1
Blog Provider	1
Website Provider	1
Online Backup service	1
Journal, PDF	1
Online Citation Index	1
Meeting, PDF	1
Book Reviewer	1
Review Article; PDF	1
Reviewer	1

It is not surprising that blogs are on top of this list. They are a new type of segmented journalism in almost every topic. Electronic journals are on the second place, which is typical for a scientific topic. Altogether, blogs, social networks, electronic libraries, discussion forums and other new services are a precursor of a structural change on the science and publication infrastructure.

6 Conclusion and implications

To conclude, the internet scanning could identify the structure of the ‘publication bias community’, with the organisations mentioned in Appendix C. The community visible on the internet consists of about 483 organisations (minus the country double and the functional domain duplicates) and about 17, 000 sites about publication bias. A remarkable amount of this content is produced by users of new media services.

As mentioned in the last chapter, one of the main results from internet scanning was that there are new and sometimes unconventional types of organisation struggling about their position on the internet.

In the long run it might be a good idea for members of the publication bias community to establish new and modern forms of scientific information management. The automatic identification of epistemic communities is only the first step in this direction. The next steps are issue identification in the epistemic community, issue tracking, weak signal detection for emerging issues and much more. This can be very demanding in terms of human resources. Therefore, at some time in the future, automatic issue management systems will probably be a success factor for scientists, working in the field of publication bias to improve their information management.

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7 Appendix

Appendix A: List of authorities in the publication bias community

Table 7: List of authorities in the publication bias community on the internet

Rank	Domain	Number of inbound links
1.	www.ncbi.nlm.nih.gov	672
2.	maps.google.com	521
3.	www.google.com	376
4.	dx.doi.org	314
5.	scholar.google.com	256
6.	www.youtube.com	203
7.	translate.google.com	131
8.	www.google.at	109
9.	neuroskeptic.blogspot.com	94
10.	scholar.googleusercontent.com	90
11.	pdn.sciencedirect.com	90
12.	www.pubmedcentral.nih.gov	89
13.	www.sciencedirect.com	87
14.	econpapers.repec.org	86
15.	en.wikipedia.org	85
16.	www.bookfayre.cz	82
17.	www.bookfayre.sk	77
18.	books.google.at	71
19.	www.blogger.com	69
20.	www.biomedcentral.com	68
21.	www.badscience.net	63
22.	scholar.google.at	55
23.	books.google.com	54
24.	webcache.googleusercontent.com	49
25.	scholar.google.co.uk	48
26.	dx.crossref.org	48
27.	www.jclinepi.com	45
28.	www.labome.org	44
29.	linkinghub.elsevier.com	42
30.	en.m.wikipedia.org	42
31.	pubmedcentralcanada.ca	37
32.	links.isiglobalnet2.com	34
33.	maps.google.at	34
34.	jama.ama-assn.org	33
35.	www.scopus.com	31
36.	dx.plos.org	30
37.	chemport.cas.org	27
38.	ukpmc.ac.uk	25
39.	onlinelibrary.wiley.com	24
40.	translate.google.at	24
41.	logec.repec.org	23
42.	ovidsp.ovid.com	20
43.	direct.bl.uk	19
44.	www.plosmedicine.org	16
45.	olinks.ohiolink.edu	15
46.	www.scholaruniverse.com	15
47.	en.wordpress.com	14
48.	www.google.co.uk	14
49.	www.skepticalscience.com	14
50.	medicine.plosjournals.org	13
51.	openurl.ebscohost.com	13
52.	www.psychfiledrawer.org	13

Rank	Domain	Number of inbound links
53.	ije.oxfordjournals.org	12
54.	neuroskeptic.blogspot.co.uk	11
55.	ethicalnag.org	11
56.	www.thelancet.com	11
57.	stroke.ahajournals.org	10
58.	ideas.repec.org	10
59.	rxoutcomesadviser.wordpress.com	10
60.	dl.dropbox.com	10
61.	www.imbi.uni-freiburg.de	10
62.	download.thelancet.com	9
63.	www.nature.com	8
64.	www.trialsjournal.com	8
65.	www.nejm.org	8
66.	pediatrics.aappublications.org	7
67.	bit.ly	7
68.	archpedi.ama-assn.org	7
69.	dro.deakin.edu.au	7
70.	www.sciencebasedmedicine.org	7
71.	www.jstor.org	7
72.	www.bmj.com	7
73.	bjp.rcpsych.org	6
74.	scienceblogs.com	6
75.	content.nejm.org	6
76.	humrep.oxfordjournals.org	6
77.	www.guardian.co.uk	6
78.	www.annals.org	6
79.	www.reproductive-health-journal.com	6
80.	gimpyblog.wordpress.com	5
81.	gu.com	5
82.	www.cochrane.org	5
83.	www.plosone.org	5
84.	wp.me	5
85.	www.hta.ac.uk	5
86.	www.epi-perspectives.com	5
87.	wn.com	5
88.	citec.repec.org	4
89.	marginalrevolution.com	4
90.	journals.cambridge.org	4
91.	ssrn.com	4
92.	twitter.com	4
93.	jnci.oxfordjournals.org	4
94.	leftbrainrightbrain.co.uk	4
95.	article.wn.com	4
96.	www.pubmedcentral.gov	4
97.	www.deakin.edu.au	4
98.	www.overcomingbias.com	4
99.	www.nber.org	4
100.	web.archive.org	3
101.	feeds.feedburner.com	3
102.	hardsci.wordpress.com	3
103.	andrewgelman.com	3
104.	cedarsdigest.wordpress.com	3
105.	filedrawer.wordpress.com	3
106.	cfredlevy.wordpress.com	3
107.	minochahealth.typepad.com	3
108.	carolynthomas.wordpress.com	3
109.	gateway.webofknowledge.com	3
110.	add.my.yahoo.com	3
111.	blogs.forbes.com	3
112.	statistical-solutions-software.com	3
113.	jco.ascopubs.org	3
114.	media.wiley.com	3
115.	www.cmaj.ca	3

Rank	Domain	Number of inbound links
116.	www.who.int	3
117.	www.plosbiology.org	3
118.	www.anesthesia-analgesia.org	3
119.	scienceofsickness.wordpress.com	3
120.	skepdic.com	2
121.	w09.biomedcentral.com	2
122.	marilynmann.wordpress.com	2
123.	hawk-handsaw.blogspot.com	2
124.	archpsyc.ama-assn.org	2
125.	1boringoldman.com	2
126.	pigee.wordpress.com	2
127.	mpra.ub.uni-muenchen.de	2
128.	circoutcomes.ahajournals.org	2
129.	bengoldacre.posterous.com	2
130.	radiology.rsna.org	2
131.	barenormality.wordpress.com	2
132.	jajsamos.wordpress.com	2
133.	autismitsgutstupid.wordpress.com	2
134.	brainsidea.wordpress.com	2
135.	aidwriting.wordpress.com	2
136.	brucelynnblog.wordpress.com	2
137.	aje.oxfordjournals.org	2
138.	jpkc.hrbmu.edu.cn	2
139.	journals.lww.com	2
140.	content.onlinejacc.org	2
141.	blogs.discovermagazine.com	2
142.	eurheartj.oxfordjournals.org	2
143.	referentiel-autisme.fr	2
144.	smr.sagepub.com	2
145.	lesswrong.com	2
146.	jech.bmj.com	2
147.	radiology.rsna.org	2
148.	papergirls.wordpress.com	2
149.	archinte.ama-assn.org	2
150.	biotechisthefuture.wordpress.com	2
151.	medicalmediawatch.wordpress.com	2
152.	gameswithwords.fieldofscience.com	2
153.	openurl.ingenta.com	2
154.	library.deakin.edu.au	2
155.	rss.wn.com	2
156.	medicalxpress.com	2
157.	www.cochrane-net.org	2
158.	www.meta-analysis.com	2
159.	www.connotea.org	2
160.	www.healthnewsreview.org	2
161.	www.thepsychologist.org.uk	2
162.	www.pediatrics.org	2
163.	www.oarsijournal.com	2
164.	www.wiley.com	2
165.	www.biomedsearch.com	2
166.	www.ete-online.com	2
167.	www.crd.york.ac.uk	2
168.	www.hawk-handsaw.blogspot.com	2
169.	www.goodbadandbogus.com	2
170.	www.talyarkoni.org	2
171.	www.stat.columbia.edu	2
172.	www.thechranelibrary.com	2
173.	www.jmir.org	2
174.	www.ajnr.org	2
175.	simondenegri.com	2
176.	www.hendrix.edu	2
177.	www.ama-assn.org	2
178.	wilkox.wordpress.com	2

Rank	Domain	Number of inbound links
179.	www.foxnews.com	2
180.	www.mrw.interscience.wiley.com	2
181.	www.jdentaled.org	2
182.	www.isaiadis.com	2
183.	www.plos.org	2
184.	www.economist.com	2
185.	toolsserver.org	2
186.	www.camarades.info	2
187.	www.annemergmed.com	2
188.	www.aafnh.org	2
189.	www.jbjs.org	2
190.	theness.com	2
191.	www.tandfonline.com	2
192.	www.jeccr.com	2
193.	www.journals.elsevierhealth.com	2
194.	psychfiledrawer.org	1
195.	bloodjournal.hematologylibrary.org	1
196.	cscs.umich.edu	1
197.	chronicle.com	1
198.	blogs.nature.com	1
199.	econ.la.psu.edu	1
200.	tinyurl.com	1
201.	retractionwatch.wordpress.com	1
202.	adsabs.harvard.edu	1
203.	strategyprofs.wordpress.com	1
204.	w02.biomedcentral.com	1
205.	researchblogging.org	1
206.	171.66.127.115	1
207.	bactra.org	1
208.	gooznews.com	1
209.	careandcost.com	1
210.	botd.wordpress.com	1
211.	value-strategies.blogspot.com	1
212.	organisationsandmarkets.com	1
213.	smm.sagepub.com	1
214.	jamia.bmj.com	1
215.	171.67.114.118	1
216.	badscience.net	1
217.	johnbenneth.wordpress.com	1
218.	sydney.edu.au	1
219.	content.apa.org	1
220.	vts.uni-ulm.de	1
221.	apgaylard.wordpress.com	1
222.	laughingmysocksoff.wordpress.com	1
223.	deevybee.blogspot.com	1
224.	pyjamasinbananas.blogspot.com	1
225.	psychrights.org	1
226.	thelastpsychiatrist.com	1
227.	prescriptions.blogs.nytimes.com	1
228.	mres.gmu.edu	1
229.	psych-your-mind.blogspot.com	1
230.	brain.oxfordjournals.org	1
231.	arks.princeton.edu	1
232.	apps.who.int	1
233.	openmedicinee.u.blogactiv.eu	1
234.	adultomayor.medicasur.com.mx	1
235.	pdresources.wordpress.com	1
236.	drinkingwateradvisor.wordpress.com	1
237.	restructure.wordpress.com	1
238.	chestjournal.chestpubs.org	1
239.	ithelp.hendrix.edu	1
240.	depot.gdnet.org	1
241.	papers.ssrn.com	1

Rank	Domain	Number of inbound links
242.	epm.sagepub.com	1
243.	fohs.bgu.ac.il	1
244.	circ.ahajournals.org	1
245.	biostatistics.oxfordjournals.org	1
246.	eprints.whiterose.ac.uk	1
247.	homeopathy4health.wordpress.com	1
248.	feeds2.feedburner.com	1
249.	chimerasthebooks.blogspot.com	1
250.	psychologicalstatistics.blogspot.com	1
251.	i-perception.perceptionweb.com	1
252.	neurochambers.blogspot.com	1
253.	goodbyelab.blog-so-net.ne.jp	1
254.	filipsagnoli.wordpress.com	1
255.	gryffinstail.wordpress.com	1
256.	jerome23.wordpress.com	1
257.	ndt.oxfordjournals.org	1
258.	maximum-entropy-blog.blogspot.com	1
259.	econfaculty.gmu.edu	1
260.	digg.com	1
261.	homeopathyblogs.blogspot.com	1
262.	bipolarsoupkitchen-stephany.blogspot.com	1
263.	crookedtimber.org	1
264.	logbase2.blogspot.com	1
265.	rjwaldmann.blogspot.com	1
266.	cogprints.org	1
267.	ja.wikipedia.org	1
268.	images.the-scientist.com	1
269.	forums.randi.org	1
270.	1jessicakes.wordpress.com	1
271.	feedproxy.google.com	1
272.	goodscience.wordpress.com	1
273.	dannyreviews.com	1
274.	bmj.com	1
275.	seedmagazine.com	1
276.	view.ncbi.nlm.nih.gov	1
277.	norvig.com	1
278.	newhumanist.org.uk	1
279.	pubget.com	1
280.	arthritis-research.com	1
281.	breast-cancer-research.com	1
282.	ep-ology.blogspot.com	1
283.	legacy.library.ucsf.edu	1
284.	sitemaker.umich.edu	1
285.	thesciencechat.wordpress.com	1
286.	rd.springer.com	1
287.	rds185.epi-ucsf.org	1
288.	downloads.hindawi.com	1
289.	cid.oxfordjournals.org	1
290.	clinicaltrials.ploshubs.org	1
291.	frwebgate.access.gpo.gov	1
292.	rationalwiki.org	1
293.	doi.wiley.com	1
294.	leucemiafz.blogspot.com	1
295.	community.wddty.com	1
296.	page.mi.fu-berlin.de	1
297.	e-patients.net	1
298.	brendan-nyhan.tumblr.com	1
299.	dontdontoperate.wordpress.com	1
300.	press.psprings.co.uk	1
301.	humupd.oxfordjournals.org	1
302.	laikaspoetnik.wordpress.com	1
303.	la.rsmjournals.com	1
304.	pathsoflight.us	1

Rank	Domain	Number of inbound links
305.	espace.library.uq.edu.au	1
306.	nojesusnopeas.blogspot.com	1
307.	ksjtracker.mit.edu	1
308.	jama.jamanetwork.com	1
309.	mirror.nber.org	1
310.	jt512.dyndns.org	1
311.	ajp.psychiatryonline.org	1
312.	archinte.jamanetwork.com	1
313.	blogs.plos.org	1
314.	www.scientificexploration.org	1
315.	www.kk.org	1
316.	www.bbmt.org	1
317.	www.ted.com	1
318.	www.gwern.net	1
319.	www.researchblogging.org	1
320.	www.amazon.de	1
321.	www.libri.de	1
322.	www.epidem.com	1
323.	www.usatoday.com	1
324.	www.helenjaques.co.uk	1
325.	www.weightymatters.ca	1
326.	www.connectedaction.net	1
327.	www.antidepressantsfacts.com	1
328.	www.ssrn.com	1
329.	www.cycle-helmets.com	1
330.	www.hcval.com	1
331.	www.ajcn.org	1
332.	www.springerlink.com	1
333.	www.medicalacupuncture.org	1
334.	www.quackwatch.org	1
335.	www.h2mw.eu	1
336.	www.timeshighereducation.co.uk	1
337.	www.tamui.edu	1
338.	www.stata.com	1
339.	www.cepr.org	1
340.	www.skepticreport.com	1
341.	www2.psych.purdue.edu	1
342.	www.cardioexchange.org	1
343.	www2.cochrane.org	1
344.	www.jad-journal.com	1
345.	www.marginalrevolution.com	1
346.	www.smw.ch	1
347.	www.nlm.nih.gov	1
348.	www.fda.gov	1
349.	www.mhra.gov.uk	1
350.	www.pashler.com	1
351.	www.supremecourt.gov	1
352.	www.controlled-trials.com	1
353.	www.brendan-nyhan.com	1
354.	www.ecmaj.ca	1
355.	www.beforeyoutakethatpill.com	1
356.	www.leg.bc.ca	1
357.	www.ejcancer.info	1
358.	www.jameslindlibrary.org	1
359.	www.zhshen.com.cn	1
360.	structureofentropy.wordpress.com	1
361.	thereisnowetware.wordpress.com	1
362.	scienceandinnovation.wordpress.com	1
363.	www.cochrane.it	1
364.	www.cof.org.cn	1
365.	www.out.ac.tz	1
366.	www.stanford.edu	1
367.	www.mi.uni-hamburg.de	1

Rank	Domain	Number of inbound links
368.	www.amazon.com	1
369.	www.lavoisier.fr	1
370.	www.coedu.usf.edu	1
371.	www.richardwellsresearch.com	1
372.	tspace.library.utoronto.ca	1
373.	www.ro-journal.com	1
374.	www.cirp.org	1
375.	www.iiis.org	1
376.	www.tobaccoharmreduction.org	1
377.	www.1boringgoldman.com	1
378.	www.nice.org.uk	1
379.	www.garfield.library.upenn.edu	1
380.	the-scientist.com	1
381.	www.acsh.org	1
382.	www.psychologicalscience.org	1
383.	www.anthromed.org	1
384.	www.homeopathy.org	1
385.	www.myhealthnewsdaily.com	1
386.	www.washingtonpost.com	1
387.	www.ncri.org.uk	1
388.	www.worldhomeopathy.org	1
389.	www.quackometer.net	1
390.	www.perceptionweb.com	1
391.	theoncologist.alphamedpress.org	1
392.	www.ajronline.org	1
393.	www.webmd.com	1
394.	www.cscop.org	1
395.	www.scientificamerican.com	1
396.	www.bioone.org	1
397.	www.nutrition-matters.co.uk	1
398.	www.medicalnewstoday.com	1
399.	www.vapersforum.com	1
400.	www.pnas.org	1
401.	www.dcn.ed.ac.uk	1
402.	www.hindawi.com	1
403.	www.annals-general-psychiatry.com	1
404.	www.malariajournal.com	1
405.	www.psychologyreplications.org	1
406.	www.childrensmercy.org	1
407.	www.spiked-online.com	1
408.	www.stemcellassays.com	1
409.	www.pbm.va.gov	1
410.	www.clinchem.org	1
411.	www.jco.org	1
412.	www.york.ac.uk	1
413.	www.mrc-bsu.cam.ac.uk	1
414.	www.deepdyve.com	1
415.	www.ejbs.org	1
416.	www.carg.cochrane.org	1
417.	ws.isiknowledge.com	1
418.	www.stata-press.com	1
419.	www.icmje.org	1
420.	www.qjps.com	1
421.	www.medicine.ox.ac.uk	1
422.	www.wired.com	1
423.	www.anu.edu.au	1
424.	whyevolutionistrue.wordpress.com	1
425.	www.eurekalert.org	1
426.	www.alibris.com	1
427.	vedantatoday.wordpress.com	1
428.	simondenegri.wordpress.com	1
429.	www.ncahf.org	1
430.	www.pmean.com	1

Rank	Domain	Number of inbound links
431.	www.hcplive.com	1
432.	www.collide-a-scape.com	1
433.	www.josonline.org	1
434.	www.kjronline.org	1
435.	www.ajpmonline.org	1
436.	www.jrsm.rsmjournals.com	1
437.	www.newyorker.com	1
438.	www.dcscience.net	1
439.	talyarkoni.org	1
440.	www.ima.org.il	1
441.	www.scielosp.org	1
442.	www.harmreductionjournal.com	1
443.	www.substanceabusepolicy.com	1
444.	www.pophealthmetrics.com	1
445.	www.businesswire.com	1
446.	wapo.st	1
447.	www.researchgate.net	1
448.	www.populartechnology.net	1
449.	www.wnyc.org	1
450.	www.lungcancerjournal.info	1
451.	www.independent.co.uk	1

Appendix B: List of hubs in the publication bias community

Table 8: List of hubs in the publication bias community on the internet

Rank	Domain	Number of outbound links
1.	www.google.com	1016
2.	scholar.google.com	388
3.	dx.doi.org	379
4.	www.ncbi.nlm.nih.gov	370
5.	books.google.com	238
6.	pubmedcentralcanada.ca	194
7.	translate.google.com	189
8.	www.google.at	168
9.	neuroskeptic.blogspot.com	148
10.	scholar.googleusercontent.com	145
11.	en.wikipedia.org	139
12.	books.google.at	118
13.	www.biomedcentral.com	105
14.	neuroskeptic.blogspot.co.uk	95
15.	maps.google.com	85
16.	www.sciencedirect.com	82
17.	www.bookfayre.cz	76
18.	citec.repec.org	72
19.	www.google.co.uk	63
20.	www.scopus.com	59
21.	www.jclinepi.com	53
22.	www.sciencebasedmedicine.org	47
23.	www.pubmedcentral.nih.gov	46
24.	hawk-handsaw.blogspot.com	40
25.	en.wordpress.com	36
26.	scholar.google.at	35
27.	en.m.wikipedia.org	34
28.	www.nejm.org	33
29.	econpapers.repec.org	31
30.	eprints.soton.ac.uk	28
31.	scholar.google.co.uk	26
32.	webcache.googleusercontent.com	23
33.	www.jmir.org	22

Rank	Domain	Number of outbound links
34.	logec.repec.org	21
35.	linkinghub.elsevier.com	20
36.	www.gwern.net	20
37.	scienceblogs.com	19
38.	www.plosmedicine.org	19
39.	pyjamasinbananas.blogspot.com	16
40.	content.nejm.org	15
41.	translate.google.at	15
42.	ep-ology.blogspot.com	15
43.	blogs.plos.org	14
44.	wn.com	14
45.	gimpyblog.wordpress.com	14
46.	pigee.wordpress.com	13
47.	www.nature.com	13
48.	www.cochrane.org	13
49.	psychfiledrawer.org	13
50.	maps.google.at	12
51.	hardsci.wordpress.com	11
52.	laughingmysocksoff.wordpress.com	11
53.	leftbrainrightbrain.co.uk	11
54.	www.bmj.com	11
55.	www.thelancet.com	11
56.	www.deakin.edu.au	11
57.	ideas.repec.org	10
58.	lesswrong.com	10
59.	carolynthomas.wordpress.com	10
60.	www.ete-online.com	10
61.	www.talyarkoni.org	10
62.	www.guardian.co.uk	8
63.	w09.biomedcentral.com	8
64.	marilynmann.wordpress.com	7
65.	archpedi.ama-assn.org	7
66.	apgaylard.wordpress.com	7
67.	www.reproductive-health-journal.com	7
68.	www.hindawi.com	7
69.	papers.ssrn.com	6
70.	seedmagazine.com	6
71.	dx.plos.org	6
72.	autismitsgutstupid.wordpress.com	6
73.	chimerasthebooks.blogspot.com	6
74.	www.skepdic.com	6
75.	www.emlitofnote.com	6
76.	www.epi-perspectives.com	6
77.	www.overcomingbias.com	6
78.	rationalwiki.org	5
79.	www.lancet.com	5
80.	www.annals-general-psychiatry.com	5
81.	www.wiley.com	5
82.	www.brendan-nyhan.com	5
83.	whyevolutionistrue.wordpress.com	5
84.	www.plos.org	5
85.	deevybee.blogspot.com	5
86.	stemcellassays.com	4
87.	journals.cambridge.org	4
88.	view.ncbi.nlm.nih.gov	4
89.	dx.crossref.org	4
90.	cedarsdigest.wordpress.com	4
91.	rxoutcomesadviser.wordpress.com	4
92.	www.helenjaques.co.uk	4
93.	www.marginalrevolution.com	4
94.	www.pmean.com	4
95.	johnbenneth.wordpress.com	4
96.	www.weightymatters.ca	4

Rank	Domain	Number of outbound links
97.	botd.wordpress.com	3
98.	blogs.discovermagazine.com	3
99.	archpsyc.ama-assn.org	3
100.	openurl.ebscohost.com	3
101.	homeopathy4health.wordpress.com	3
102.	page.mi.fu-berlin.de	3
103.	humupd.oxfordjournals.org	3
104.	jerome23.wordpress.com	3
105.	cfredlevy.wordpress.com	3
106.	www.forbes.com	3
107.	www.bbmt.org	3
108.	www.researchblogging.org	3
109.	www.psychfiledrawer.org	3
110.	www.statistical-solutions-software.com	3
111.	wp.me	3
112.	arthritis-research.com	3
113.	pdresources.wordpress.com	3
114.	minochahealth.typepad.com	3
115.	culturingscience.wordpress.com	2
116.	joannenova.com.au	2
117.	ije.oxfordjournals.org	2
118.	cardiobrief.org	2
119.	retractionwatch.wordpress.com	2
120.	norvig.com	2
121.	gooznews.com	2
122.	helmetfreedom.org	2
123.	rd.springer.com	2
124.	barenormality.wordpress.com	2
125.	andrewgelman.com	2
126.	papergirls.wordpress.com	2
127.	1boringgoldman.com	2
128.	i-perception.perceptionweb.com	2
129.	laikaspoetnik.wordpress.com	2
130.	crookedtimber.org	2
131.	logbase2.blogspot.com	2
132.	www.plosbiology.org	2
133.	www.mendeley.com	2
134.	www.gastrojournal.org	2
135.	wilkox.wordpress.com	2
136.	www.ma.utexas.edu	2
137.	www.healthnewsreview.org	2
138.	www.crd.york.ac.uk	2
139.	www.goodbadandbogus.com	2
140.	vedantatoday.wordpress.com	2
141.	www.trialsjournal.com	2
142.	www.collide-a-scape.com	2
143.	arxiv.org	1
144.	blogs.forbes.com	1
145.	cscs.umich.edu	1
146.	strategyprofs.wordpress.com	1
147.	stroke.ahajournals.org	1
148.	breast-cancer-research.com	1
149.	smm.sagepub.com	1
150.	clinicaltrials.ploshubs.org	1
151.	content.onlinejacc.org	1
152.	marginalrevolution.com	1
153.	psychologicalstatistics.blogspot.com	1
154.	archinte.ama-assn.org	1
155.	brendan-nyhan.tumblr.com	1
156.	goodbyelab.blog.so-net.ne.jp	1
157.	nojesusnopeas.blogspot.com	1
158.	www.badscience.net	1
159.	www.news-medical.net	1

Rank	Domain	Number of outbound links
160.	www.experiment-resources.com	1
161.	www.epidem.com	1
162.	www.vapersforum.com	1
163.	www.hcval.com	1
164.	www.isaiadis.com	1
165.	www.nber.org	1
166.	simondenegri.com	1
167.	www.kjronline.org	1
168.	www.hta.ac.uk	1
169.	bengoldacre.posterous.com	1
170.	skepdic.com	1
171.	blogs.nature.com	1
172.	jeps.efpsa.org	1
173.	pubget.com	1
174.	value-strategies.blogspot.com	1
175.	onlinelibrary.wiley.com	1
176.	organisationsandmarkets.com	1
177.	thelastpsychiatrist.com	1
178.	prescriptions.blogs.nytimes.com	1
179.	circoutcomes.ahajournals.org	1
180.	pediatrics.aappublications.org	1
181.	jajsamos.wordpress.com	1
182.	radiology.rsna.org	1
183.	biotechisthefuture.wordpress.com	1
184.	gryffinstail.wordpress.com	1
185.	pathsoflight.us	1
186.	referentiel-autisme.fr	1
187.	www.cochrane-net.org	1
188.	www.effectivehealthcare.ahrq.gov	1
189.	www.connectedaction.net	1
190.	www.dcn.ed.ac.uk	1
191.	www.bookfayre.sk	1
192.	www.stata.com	1
193.	www.jco.org	1
194.	www.hendrix.edu	1
195.	www.carg.cochrane.org	1
196.	www.controlled-trials.com	1
197.	simondenegri.wordpress.com	1
198.	www.washingtonpost.com	1
199.	scienceandinnovation.wordpress.com	1

Appendix C: List of identified domains with organisation names

Table 9: List of identified domains with organisation names

id	Domain	Organisation Name
1	171.66.127.115	Journal of the Royal Society of Medicine
2	171.67.114.118	Journal of the American Medical Informatics Association
3	1boringgoldman.com	1boringgoldman.com
4	1jessicakes.wordpress.com	1jessicakes
5	add.my.yahoo.com	Yahoo
6	adsabs.harvard.edu	The SAO/NASA Astrophysics Data System
7	adultomayor.medicasur.com.mx	Su mejor opción de servicios médicos; Elderly People, Golden Age
8	aidwriting.wordpress.com	Aid Writing, The idle thoughts of a research fellow
9	aje.oxfordjournals.org	American Journal of Epidemiology
10	ajp.psychiatryonline.org	The American Journal of Psychiatry
11	andrewgelman.com	Statistical Modeling, Causal Inference, and Social Science

id	Domain	Organisation Name
12	apgaylard.wordpress.com	A canna' change the laws of physics
13	apps.who.int	World Health Organisation
14	archinte.ama-assn.org	Archives of Internal Medicine, JAMA
15	archinte.jamanetwork.com	Archives of Internal Medicine, JAMA
16	archpedi.ama-assn.org	Archives of Pediatrics & Adolescent Medicine, JAMA
17	archpsyc.ama-assn.org	Archives of General Psychiatry, JAMA
18	arks.princeton.edu	Princeton University Digital Library
19	arthritis-research.com	Arthritis Research & Therapy
20	article.wn.com	General Sources, World News
21	arxiv.org	Cornell University Library
22	autismitsgutstupid.wordpress.com	Autism, It's Gut Stupid
23	bactra.org	Cosma's Home Page
24	badscience.net	Bad Science
25	barenormality.wordpress.com	Bare Normality
26	bengoldacre.posterous.com	bengoldacre - secondary blog
27	bighink.com	Big Think
28	biostatistics.oxfordjournals.org	Biostatistics
29	biotechisthefuture.wordpress.com	To biotech or not to biotech?
30	bipolarsoupkitchen-stephany.blogspot.com	Soulful Sepulcher
31	bit.ly	Bitly
32	bjp.rcpsych.org	The British Journal of Psychiatry
33	blogs.discovermagazine.com	Discover magazine
34	blogs.forbes.com	Forbes
35	blogs.nature.com	Nature.com Blog
36	blogs.plos.org	Plos Blogs
37	bloodjournal.hematologylibrary.org	Blood
38	bmj.com	BMJ Helping doctors make better decisions
39	books.google.at	Google Books
40	books.google.com	Google Books
41	botd.wordpress.com	Blogs of the Day
42	brain.oxfordjournals.org	Brain, a Journal of neurology
43	brainsidea.wordpress.com	Brain's Idea
44	breast-cancer-research.com	Breast Cancer Research
45	brendan-nyhan.tumblr.com	Brendan Nyhan
46	brucelynnblog.wordpress.com	Leadership and Management / Turning Adversity to Advantage
47	cardiobrief.org	CardioBrief
48	careandcost.com	Care And Cost
49	carolynthomas.wordpress.com	The Ethical Nag
50	cedarsdigest.wordpress.com	Cedar's Digest
51	cfredlevy.wordpress.com	cfredlevy
52	chemport.cas.org	CAS, A Division of the American Chemical Society
53	chestjournal.chestpubs.org	Chest
54	chimerasthebooks.blogspot.com	Chimeras
55	chrisblattman.com	Chrisblattman
56	chronicle.com	The Chronicle of Higher Education
57	cid.oxfordjournals.org	Clinical Infectious Diseases
58	circ.ahajournals.org	Circulation
59	circoutcomes.ahajournals.org	Circulation: Cardiovascular Quality and Outcomes
60	citec.repec.org	Citations in Economics
61	clinicaltrials.ploshubs.org	Plos Hub
62	cogprints.org	Cogprints
63	community.wddty.com	What Doctors Don't Tell You ?
64	content.apa.org	APA PsycNet; American Psychological Association
65	content.nejm.org	The New England Journal of Medicine
66	content.onlinejacc.org	Journal of American College of Cardiology
67	crookedtimber.org	Crooked Timber
68	cscs.umich.edu	CSCS; The Center for the Study of Complex Systems
69	culturingscience.wordpress.com	Culturing Science – biology as relevant to us earthly beings
70	dannyreviews.com	Danny Yee's Book Reviews
71	deevybee.blogspot.com	BisshopBlog
72	depot.gdnet.org	GDNet; Global Development Network
73	digg.com	Digg
74	direct.bl.uk	British Library Direct

id	Domain	Organisation Name
75	dl.dropbox.com	Dropbox
76	doi.wiley.com	Wiley Online Library; Digital Object Identifier
77	dontdontoperate.wordpress.com	Dontdontoperate's Blog
78	download.thelancet.com	The Lancet.com
79	downloads.hindawi.com	A Survey of Collaborative Filtering Techniques
80	drinkingwateradvisor.wordpress.com	The Drinking Water Advisor
81	dro.deakin.edu.au	Deakin University, Deakin Research Online
82	dx.crossref.org	Handle System; Resolve a Handle and View the Values
83	dx.doi.org	The DOI System
84	dx.plos.org	PLoS ONE
85	e-patients.net	e-patients.net
86	econ.la.psu.edu	Pennstate, Department of Economics
87	econfaculty.gmu.edu	Walter E. Williams; George Mason University
88	econpapers.repec.org	EconPapers
89	en.m.wikipedia.org	W; Today's featured article
90	en.wikipedia.org	W; Today's featured article
111	goodscience.wordpress.com	Goodscience Weblog, exp
92	ep-ology.blogspot.com	EP-ology by Carl V. Phillips
93	epm.sagepub.com	Educational and Psychological Measurement
94	eprints.soton.ac.uk	University of Southampton; Institutional Research
95	eprints.whiterose.ac.uk	White Rose, Research Online
96	espace.library.uq.edu.au	University of Queensland's institutional digital repository
97	ethicalnag.org	The Ethical Nag, Marketing Ethics for Easily Swayed
98	eurheartj.oxfordjournals.org	European Heart Journal
99	feedproxy.google.com	Google, Feedburner
100	feeds.feedburner.com	Google, Feedburner
101	feeds2.feedburner.com	Google, Feedburner
102	filedrawer.wordpress.com	The File Drawer
103	filipspagnoli.wordpress.com	R.A.P Blog; Human Rights in the USA
104	fohs.bgu.ac.il	Ben-Gurion University of the Negev, The faculty of Health Science
105	forums.randi.org	James Randy Educational Foundation
106	frwebgate.access.gpo.gov	One Hundred Eleventh Congress of the. United States of America
107	gameswithwords.fieldofscience.com	Games with Words
108	gateway.webofknowledge.com	Web Of Knowledge
109	gimpyblog.wordpress.com	Gimby's Blog, inane witterings and badscience
110	goodbyelab.blog.so-net.ne.jp	So-net Blog; Chinese
113	gryffinstail.wordpress.com	Gryffin's Tail, exp
112	gooznews.com	Gooznews.com
371	goodscience.wordpress.com	Goodscience Weblog, exp
114	gu.com	The Guardian
115	hardsci.wordpress.com	The hardest Science
116	hawk-handsaw.blogspot.com	Hawk/Handsaw
117	helmetfreedom.org	Helmet Freedom
118	homeopathy4health.wordpress.com	Homeopathy4health
119	homeopathyblogs.blogspot.com	Homeopathy Blogs
120	humrep.oxfordjournals.org	Human Reproduction
121	humupd.oxfordjournals.org	Human Reproduction Update
122	i-perception.perceptionweb.com	i-Perception Open-access journal of human, animal, and machine perception
123	ideas.repec.org	Economics and Finance Research
124	ije.oxfordjournals.org	International Journal of Epidemiology
125	images.the-scientist.com	The Australasian Journal of Bone & Joint Medicine
126	ithelp.hendrix.edu	Hendrix
127	ja.wikipedia.org	Wikipedia, Chinese
128	jajamos.wordpress.com	The Practical Psychosomaticist: James Amos, M.D.
129	jama.ama-assn.org	JAMA; The Journal of American Medical Association
130	jama.jamanetwork.com	The JAMA Network
131	jamia.bmj.com	JAMIA; Journal of the American Medical Informatics Association
132	jco.ascopubs.org	Journal of Clinical Oncology
133	jech.bmj.com	Journal of Epidemiology and Community Health
134	jeps.efpsa.org	Journal of European Psychology Students
135	jerome23.wordpress.com	And sometimes he's so nameless

id	Domain	Organisation Name
136	jnci.oxfordjournals.org	JNCI; Journal of the National Cancer Institute
137	joannenova.com.au	JoNova: Science, carbon, climate and tax
138	johnbenneth.wordpress.com	The John Benneth Journal
139	journals.cambridge.org	Cambridge Journal
140	journals.lww.com	Lippincott Williams & Wilkins (LWW)
141	jpkc.hrbmu.edu.cn	Harbin Medical University, Chinese
142	jt512.dyndns.org	jt512
143	ksjtracker.mit.edu	Knight Science Journalism Tracker
144	la.rsmjournals.com	Laboratory Animals
145	laikaspoetnik.wordpress.com	Laika's medliblog
146	laughingmysocksoff.wordpress.com	Laughing my socks off
147	leftbrainrightbrain.co.uk	lbrb, Autism news science and opinion
148	legacy.library.ucsf.edu	The Legacy Tobacco Documents Library (LTDL)
149	lesswrong.com	Less Wrong, A community blog devoted to refining the art of human rationality
150	leucemiafz.blogspot.com	LEUKEMIA
151	library.deakin.edu.au	Deakin University Library
152	linkinghub.elsevier.com	Elsevier
153	links.isiglobalnet2.com	FORBIDDEN, don't have permission to access
154	logbase2.blogspot.com	Log Base 2
155	logec.repec.org	Access Statistics for Participating RePEc Services
156	login.medscape.com	Medscape from WebMD
157	maps.google.at	Google maps
158	maps.google.com	Google maps
159	marginalrevolution.com	Marginal Revolution, Small steps towards a much better world
160	marilynmann.wordpress.com	Marily Mann's Blog
161	maximum-entropy-blog.blogspot.com	Maximum Entropy
162	media.wiley.com	Wiley, Knowledge for Generations
163	medicalmediawatch.wordpress.com	Medical Media Watch
164	medicalxpress.com	Medicalxpress
165	medicine.plosjournals.org	PLoS Medicine
166	minochahealth.typepad.com	Digestion, Health and Nutrition
167	mirror.nber.org	The National Bureau of Economic Research
168	mpira.ub.uni-muenchen.de	Munich Personal RePEc Archive
169	mres.gmu.edu	MRES Web Resources
170	ndt.oxfordjournals.org	NDT; Nephrology Dialysis Transplantation
171	neurochambers.blogspot.com	NeuroChambers
172	neuroskeptic.blogspot.co.uk	Neuroskeptic
173	neuroskeptic.blogspot.com	Neuroskeptic
174	newhumanist.org.uk	New Humanist
175	nojesusnopeas.blogspot.com	No Jesus, No Peas
176	norvig.com	Peter@Norvig.com
177	olinks.ohiolink.edu	OLinks – The OhioLINK Linking Service
178	onlinelibrary.wiley.com	Wiley; Online Library
179	openmedicineeu.blogactiv.eu	OpenMedicine.EU
180	openurl.ebscohost.com	OCLC; The World Libraries Connected
181	openurl.ingenta.com	ingentaconnect; Publishing Technology
182	organisationsandmarkets.com	Organisation and Markets
183	ovidsp.ovid.com	Wolters Kluwer; OvidSp
184	page.mi.fu-berlin.de	Free University of Berlin; User Pages
185	papergirls.wordpress.com	Oceanflynn @ Digg, Papergirls news for nuanced Dialogue
186	papers.ssrn.com	Social Science Research Network
187	pathsoflight.us	Paths of Lights; Photography by Joel Gazis-Sax
188	pdn.sciencedirect.com	SciVerse ScienceDirect
189	pdresources.wordpress.com	PDResources, continuing education for health professionals
190	pediatrics.aappublications.org	Pediatrics, Official Journal of the American Academy of Pediatrics
191	pigee.wordpress.com	pigee, Personality Interest Group and Espresso at the University of Illinois
192	prescriptions.blogs.nytimes.com	The New York Times , Health
193	press.psprings.co.uk	BMJ Publishing Group Press Release; British Medical Journal
194	psych-your-mind.blogspot.com	Psych Your Mind, applying psychology to everyday life
195	psychfiledrawer.org	PsychFileDrawer

id	Domain	Organisation Name
196	psychologicalstatistics.blogspot.com	Psychological Statistics
197	psychrights.org	Project for Psychiatric Rights (PsychRights)
198	psycnet.apa.org	APA PsycNet; American Psychological Association
199	pubget.com	Pubget, Find papers fast
200	pubmedcentralcanada.ca	Pubmed Central Canada
201	pyjamasinbananas.blogspot.com	Pyjamas in Bananas
202	radiology.rsna.org	Radiology
203	radiology.rsna.jnl.org	Radiology
204	rationalwiki.org	RationalWiki
205	rd.springer.com	Springer for Research & Development
206	rds185.epi-ucsf.org	SEOprofiler
207	referentiel-autisme.fr	AutismBotsBlog
208	researchblogging.org	Research Blogging
209	restructure.wordpress.com	Restructure!
210	retractionwatch.wordpress.com	Retraction Watch
211	rjwaldmann.blogspot.com	Robert's Stochastic thoughts
212	rss.wn.com	World News, Blocked!
213	rxoutcomesadviser.wordpress.com	Rx Outcomes Adviser
214	scholar.google.at	Google Scholar
215	scholar.google.co.uk	Google Scholar
216	scholar.google.com	Google Scholar
217	scholar.googleusercontent.com	Google Scholar
218	scienceandinnovation.wordpress.com	the science of science and innovation: field notes
219	scienceblogs.com	Science Blog
220	scienceofsickness.wordpress.com	scienceofsickness
221	seedmagazine.com	SEED
222	simondenegri.com	simon denegri's lay review, The public health research
223	simondenegri.wordpress.com	simon denegri's lay review, The public health research
224	sitemaker.umich.edu	SiteMaker v5
225	skepdic.com	Skeptic's Dictionary
226	smm.sagepub.com	Statistical Methods in Medical Research
227	smr.sagepub.com	Sociological Methods & Research
228	ssrn.com	Social Science Research Network
229	statistical-solutions-software.com	Statistical Solutions
230	stemcellassays.com	Stem Cell Assay
231	strategyprofs.wordpress.com	StrategyProfs.net
232	stroke.ahajournals.org	Stroke
233	structureofentropy.wordpress.com	The STRUCTURE of ENTROPY
234	sydney.edu.au	The University of Sydney
235	talyarkoni.org	talyarkoni.org, Tal Yarkoni, Ph.D.
236	the-scientist.com	The Scientist
237	thelastpsychiatrist.com	The Last Psychiatrist
238	theness.com	The NESS, The New England Sceptical Society
239	theoncologist.alphamedpress.org	The Oncologist
240	thereisnowetware.wordpress.com	Stephan Fortune
241	thesciencechat.wordpress.com	thesciencechat
242	tinyurl.com	TinyURL.com
243	toolsserver.org	Wikimedia Toolsserver
244	translate.google.at	Google Übersetzer
245	translate.google.com	Google Translate
246	tspace.library.utoronto.ca	University of Toronto's Research Repository, T-Space
247	twitter.com	Twitter
248	ukpmc.ac.uk	UK PubMed Central
249	value-strategies.blogspot.com	Technorati
250	vedantatoday.wordpress.com	Welcome at VedantaToday
251	view.ncbi.nlm.nih.gov	NCBI National Center for Biotechnology Information
252	vtc.uni-ulm.de	Volltextserver University Ulm
253	w02.biomedcentral.com	Bio Med Central
254	w09.biomedcentral.com	Bio Med Central
255	wapo.st	The Washington Post
256	web.archive.org	Internet Archive, Wayback Machine
257	webcache.googleusercontent.com	ABAKUS Suchmaschinenoptimierung Forum
258	whyevolutionistrue.wordpress.com	Why Evolution is True

id	Domain	Organisation Name
259	wilkox.wordpress.com	wilkox; economics, biology, freedom and free culture
260	wn.com	World News
261	wp.me	WordPress.com, Software
262	ws.isiknowledge.com	Web of Knowledge, not possible to open
263	www.1boringgoldman.com	one boring old man, Blog
264	www.aafnh.org	Brain and Head Health, Blog
265	www.acsh.org	American Council on Science and Health, non-profit-organisation
266	www.ajcn.org	The American Journal of Clinical Nutrition
267	www.ajnr.org	American Journal of Neuroradiology
268	www.ajpmonline.org	American Journal of Preventive Medicine
269	www.ajronline.org	American Journal of Roentgenology
270	www.alibris.com	alibris, online Bookstore
271	www.ama-assn.org	American Medical Association
272	www.amazon.com	online Bookstore
273	www.amazon.de	online Bookstore
274	www.anesthesia-analgesia.org	Anesthesia & Analgesia, monthly, International Anesthesia Research Society
275	www.annals-general-psychiatry.com	Annals of General Psychiatry, open online access
276	www.annals.org	Annals of Internal Medicine, American college of Physicians
277	www.annemergmed.com	Annals of Emergency Medicine, Journal of the American College of Emergency Physicians
278	www.anthromed.org	AnthroMed Article Library, Association for Anthroposophic Medicine (PAAM)
279	www.antidepressantsfacts.com	educational Website AntidepressantsFacts
280	www.anu.edu.au	Australian National University
281	www.badscience.net	BadScience Blok, Dr. Ben Goldacre
282	www.bbmt.org	Biology of Blood and Marrow Transplantation, official Journal of the American Society for Blood and Marrow Transp.
283	www.beforeyoutakethatpill.com	Blog, Doug Bremner
284	www.biomedcentral.com	BioMed Central, STM (Science, Technology and Medicine) publisher
285	www.biomedsearch.com	biomedical search engine, provides NIH/PubMed documents etc.
286	www.bioone.org	Bio One, not-for-profit collaborative, aggregation of high-impact bioscience research journals
287	www.blogger.com	Blog Platform
288	www.bmj.com	British Medical Journal, updated online daily, in print weekly
289	www.bookfayre.cz	Online Bookstore, Bookfare
290	www.bookfayre.sk	Online Bookstore, Bookfare
291	www.brendan-nyhan.com	Brendan Nyhan, assistant professor, Department of Government, Dartmouth college
292	www.businesswire.com	commercial press release distribution, Berkshire Hathaway
293	www.camarades.info	Collaborative Approach to Meta Analysis and Review of Animal Data from Experimental Studies
294	www.cardioexchange.org	Cardio Exchange, NEJM Practice Community, Massachusetts Medical Society
295	www.carg.cochrane.org	Cochrane Anaesthesia Group, The Cochrane Collaboration
296	www.cepr.org	Centre for Economic Policy Research , UK
297	www.childrensmemory.org	Children's Mercy Hospitals & Clinics, Kansas City
298	www.cirp.org	Circumcision Information and Resource Pages
299	www.clinchem.org	Clinical Chemistry, journal of clinical laboratory science
300	www.cmaj.ca	CMAJ, Journal Canadian Medical Association
301	www.cochrane-net.org	The Cochrane Collaboration
302	www.cochrane.it	The Cochrane Collaboration
303	www.cochrane.org	The Cochrane Collaboration
304	www.coedu.usf.edu	College of education, USF University of South Florida
305	www.cof.org.cn	Chinese Osteoporosis Forum
306	www.cogsci.nl	Sebastian Mathöt, Blog on COGSCI cognitive science and more
307	www.collide-a-scape.com	freelance journalist, Keith Kloor
308	www.connectedaction.net	Connected Action, Marc Smith
309	www.connotea.org	Free online reference management for clinicians and scientists
310	www.controlled-trials.com	Current Controlled Trials, BioMed Central
311	www.crd.york.ac.uk	Centre for Reviews and Dissemination, part of NIHR and a department of the University of York
312	www.csicop.org	The Skeptical Inquirer, The Committee for Skeptical Inquiry

id	Domain	Organisation Name
313	www.cycle-helmets.com	Website that provides reports and studies (cyclist injuries, participation rates)
314	www.dcn.ed.ac.uk	DCN, Division of Clinical Neurosciences, College of Medicine & Veterinary Medicine, University of Edinburgh
315	www.dcsience.net	DC's Improbable Science, David Colquhoun
316	www.deakin.edu.au	Deaking University
317	www.deepdyve.com	deepdyve, article rental
318	www.ecmaj.ca	CMAJ, Journal Canadian Medical Association
319	www.economist.com	The Economist, weekly news and international affairs publication, The Economist Newspaper Ltd.
320	www.economistsdoitwithmodels.com	Economists do it with models, Jodi Beggs
321	www.effectivehealthcare.ahrq.gov	AHRQ Agency for Healthcare Research and Quality, U.S. Department of Health & Human Services
322	www.ejbs.org	The Journal of Bone and Joint Surgery
323	www.ejcancer.info	European Journal of Cancer, official Journal of EORTC, ECCOEACR, EUSOMA
324	www.emlitofnote.com	Emergency Medicine Literature of Note
325	www.epi-perspectives.com	Epidemiologic Perspectives & Innovations, no longer receives submissions but articles are still accessible
326	www.epidem.com	Epidemiology, Official Journal of the The International Society for Environmental Epidemiology (ISEE)
327	www.ete-online.com	Emerging Themes in Epidemiology, Journal, Elsevier
328	www.eurekalert.org	online news service, AAAS, Advancing Science, Serving Society
329	www.experiment-resources.com	Information Website about the scientific method, Martyn Shuttleworth
330	www.facebook.com	Facebook
331	www.fda.gov	FDA, U.S. Food and Drug Administration, U.S Department of Health & Human Service
332	www.forbes.com	Forbes, American business magazine, published biweekly
333	www.foxnews.com	Fox News Channel, US, News Corporation
334	www.garfield.library.upenn.edu	Eugene Garfield, Ph.D., President & Founding Editor, The Scientist
335	www.gastrojournal.org	official Journal of the AGA Institute, Gastroenterology, Elsevier
336	www.goodbadandbogus.com	Blog about science and science journalism, Michael Slezak
337	www.google.at	Google AT
338	www.google.co.uk	Google UK
339	www.google.com	Google US
340	www.guardian.co.uk	The Guardian, daily Newspaper, Guardian News & Media Ltd.
341	www.gwern.net	gwern branwen, research assistent, Singularity Institute for Artificial Intelligence (SIAI)
342	www.h2mw.eu	Scientific and Medical Writing, Hervé Maisonneuve
343	www.harmreductionjournal.com	Harm Reduction Journal, BioMed Central Ltd.
344	www.hawk-handsaw.blogspot.com	Paul Wilson, Research Associate, Manchester University
345	www.hcplive.com	HCPLives (targetgroup physicians, pharmacists, care executive)
346	www.hcval.com	Health Care Value Strategies, selection of showcases, Benjamin P. Geisler, MD MPH
347	www.healthnewsreview.org	Health News Review, Website Health Sector, funded by Foundation for Informed Medical Decision Making
348	www.helenjaques.co.uk	Helen Jaques, news reporter, medical writer
349	www.hendrix.edu	Hendrix College
350	www.hindawi.com	Hindawi Publishing Corporation, open access
351	www.homeopathy.org	NASH North American Society of Homeopaths
352	www.hta.ac.uk	Health Technology Assessment programme, part of National Institute for Health Research (NIHR)
353	www.icmje.org	JCMJE International Committee of Medical Journal Editors, Uniform Requirements for Manuscripts
354	www.iis.org	International Institute of Informatics and Systemics
355	www.ima.org.il	Israeli Medical Association Journal
356	www.imbi.uni-freiburg.de	Institut für Medizinische Biometrie und Medizinische Informatik, Universität Freiburg
357	www.independent.co.uk	The Independent, daily Newspaper
358	www.isaiadis.com	Stavros Isaiadis Blog
359	www.jad-journal.com	Journal for Affective Disorders, The International Society for Affective Disorders (ISAD)

id	Domain	Organisation Name
360	www.jameslindlibrary.org	Library, Iain Chalmers, James Lind Initiative, Oxford, UK
361	www.jbjs.org	The Journal of Bone and Joint Surgery
362	www.jclinepi.com	JCE Journal of Clinical Epidemiology, Elsevier
363	www.jco.org	Journal of Clinical Oncology, American Society of Clinical Oncology
364	www.jdentaled.org	Journal of Dental Education, peer-reviewed, American Dental Education Association (ADEA)
365	www.jeccr.com	Journal of Experimental & Clinical Cancer Research, online peer-reviewed
366	www.jmir.org	Journal of Medical Internet Research, peer-reviewed, JMIR Publications Inc.
367	www.josonline.org	official publication of the Asia Pacific Orthopaedic Association, the Journal of Orthopaedic Surgery
368	www.journals.elsevierhealth.com	Health Advance, Elsevier Inc.
369	www.jrsm.rsmjournals.com	JRSM, Journal of the Royal Society of Medicine
370	www.jstor.org	JSTOR, part of ITHAKA, a not-for-profit organisation helping the academic community
371	www.jucs.org	Journal of Universal Computer Science
372	www.kjronline.org	KJR Korean Journal of Radiology
373	www.kk.org	Kevin Kelly, Long Now Foundation, a non-profit group dedicated to fostering long-term responsibility
374	www.labome.org	Labome, Research and Social Network, Last Update 2011
375	www.lancet.com	The Lancet
376	www.lavoisier.fr	Lavoisier, Library, France
377	www.leg.bc.ca	Legislative Assembly of British Columbia
378	www.libri.de	Online Bookstore, Libri.de Internet GmbH
379	www.lungcancerjournal.info	Lung Cancer Journal, Elsevier Inc.
380	www.ma.utexas.edu	Mathematics, University of Texas at Austin
381	www.malariajournal.com	Malaria Journal, BioMedCentral Ltd.
382	www.marginalrevolution.com	Marginal Revolution, WordPress
383	www.medicalacupuncture.org	American Academy of Medical Acupuncture, Association
384	www.medicalnewstoday.com	MNT Medical News Today, MediLexicon International Ltd.
385	www.medicine.ox.ac.uk	Medical Science Division, University of Oxford
386	www.mendeley.com	Mendeley, Research Network
387	www.meta-analysis.com	Meta Analysis, CMA Software Features (Product)
388	www.mhra.gov.uk	The Medicines and Healthcare products Regulatory Agency (MHRA), an executive agency of the Department of Health
389	www.mi.uni-hamburg.de	Meteorologisches Institute Hamburg
390	www.mrc-bsu.cam.ac.uk	MRC (Medical Research Council) Biostatistics Unit, Institute of Public Health, Cambridge
391	www.mrw.interscience.wiley.com	Wiley Online Library
392	www.myhealthnewsdaily.com	MyHealthNewsDaily, about latest medical research and health news
393	www.nature.com	Nature Publishing Group, a division of Macmillan Publishers Limited
394	www.nber.org	National Bureau of Economic Research (US), a private, non-profit research organisation
395	www.ncahf.org	National Council against Health Fraud, Stephen Barrett, M.D.
396	www.ncbi.nlm.nih.gov	National Center for Biotechnology Information, U.S. National Library of Medicine
397	www.nceas.ucsb.edu	National Center for Ecological Analysis and Synthesis, Research Center of the University of California
398	www.ncri.org.uk	National Center of Cancer Research Institute (NCRI) (UK government, Industry, Charity)
399	www.nejm.org	The New England Journal of Medicine
400	www.news-medical.net	News Medical
401	www.newyorker.com	The New Yorker
402	www.nice.org.uk	National Institute for Health and clinical Excellence
403	www.nlm.nih.gov	U.S. National Library of Medicine National Institutes of Health
404	www.numberwatch.co.uk	John Brignell
405	www.nutrition-matters.co.uk	Nutrition Matters Ltd., Dr. Mark Draper, David Candlish, Dr. Paul Clayton
406	www.oarsijournal.com	Osteoarthritis and Cartilage, Osteoarthritis Research Society International

id	Domain	Organisation Name
407	www.out.ac.tz	Open University of Tanzania
408	www.overcomingbias.com	Robin Hanson Blog
409	www.pashler.com	Hal Pashler, Distinguished Professor of Psychology University of California
410	www.pbm.va.gov	United States Department of Veterans Affairs
411	www.pediatrics.org	Pediatrics, an official peer-reviewed journal of the American Academy of Pediatrics
412	www.perceptionweb.com	Perception, scholarly journal (human, animal, and machine perception)
413	www.plos.org	PLoS Public Library of Science, a non-profit publisher and advocacy organisation
414	www.plosbiology.org	PLoS Biology by the Public Library of Science, NPO, peer reviewed
415	www.plosmedicine.org	PLoS Medicine by the Public Library of Science, NPO, peer reviewed
416	www.plosone.org	PLoS ONE by the Public Library of Science, NPO, peer reviewed
417	www.pmean.com	P. Mean Website
418	www.pnas.org	Proceedings of the National Academy of Sciences of the United States of America
419	www.pophealthmetrics.com	Population Health Metrics
420	www.populartechology.net	Impartial Analysis of Popular Trends and Technology, Editor Andrew
421	www.psychfiledrawer.org	PsychfileDrawer, Archive of Replication Attempts in Experimental Psychology
422	www.psychologicalscience.org	APS Association for Psychological Science
423	www.psychologyreplications.org	PsychfileDrawer, Archive of Replication Attempts in Experimental Psychology
424	www.pubmedcentral.gov	PMC , free full-text archive of biomedical and life sciences journal literature at the U.S. (NIH/NLM)
425	www.pubmedcentral.nih.gov	PMC , free full-text archive of biomedical and life sciences journal literature at the U.S. (NIH/NLM)
426	www.qjps.com	Quarterly Journal of Political Science, Keith Krehbiel, Stanford University, Nolan McCarty, Princeton University
427	www.quackometer.net	Andy Lewis, Software to find Quack Sites
428	www.quackwatch.org	Stephen Barrett, M.D. Casewatch Site Health Fraud
429	www.reproductive-health-journal.com	Reproductive Health Journal
430	www.researchblogging.org	Research Blogging
431	www.researchgate.net	Research Gate, Social Platform for Researchers
432	www.richardwellsresearch.com	The Richard Wells Research Center, University of West London
433	www.ro-journal.com	Radiation Oncology Journal, peer reviewed
434	www.scholaruniverse.com	Scholar Universe, finds experts on every topic
435	www.scielo.org	Scielo Public Health, online Library
436	www.sciencebasedmedicine.org	Science-Based Medicine
437	www.sciencedirect.com	Science Direct
438	www.scientificamerican.com	Scientific American
439	www.scientificexploration.org	Society for Scientific Exploration, JSE Journal, peer reviewed
440	www.scopus.com	Scopus
441	www.skepdic.com	Skeptic's Dictionary, Book, Website
442	www.skepticalscience.com	Skeptical Science, Peer reviewed Science about Global Warming
443	www.skepticreport.com	Skeptic Report
444	www.slackjournals.com	Helio, Journal Platform
445	www.smw.ch	Swiss Medical Weekly
446	www.spiked-online.com	Spiked, Online Magazine
447	www.springerlink.com	SpringerLink Library
448	www.ssrn.com	Social Science Research Network
449	www.stanford.edu	Stanford University
450	www.stat.columbia.edu	Columbia University New York, Statistics Department
451	www.stata-press.com	Stata Press publishes Manuals, Books, Journals about Stata Software
452	www.stata.com	Data Analysis and Statistical Software
453	www.statistical-solutions-software.com	Statistical Solution, Statistical Software
454	www.statsdirect.com	StatsDirect Statistical Software
455	www.stemcellassays.com	Cells Weekly, Stem Cells Research
456	www.substanceabusepolicy.com	BioMed Central, Part of Springer Science and Business Media

id	Domain	Organisation Name
457	www.supremecourt.gov	Supreme Court of the United States
458	www.talyarkoni.org	Tal Yarkoni, Ph.D., Institute of Cognitive Science University of Colorado at Boulder
459	www.tamui.edu	Texas A&M International University
460	www.tandfonline.com	The online platform for Taylor & Francis Group content
461	www.ted.com	Ted
462	www.theatlantic.com	The Atlantic
463	www.thecochranelibrary.com	The Cochrane Collaboration
464	www.thelancet.com	The Lancet
465	www.thepsychologist.org.uk	The Psychologist, official monthly publication of The British Psychological Society
466	www.timeshighereducation.co.uk	Times Higher Education Magazine
467	www.tobaccoharmreduction.org	Dr. Carl V. Phillips's independent research institute
468	www.trialsjournal.com	Trials, online Journal
469	www.usatoday.com	USA Today, daily newspaper by Gannett Company
470	www.vapersforum.com	VapersForum
471	www.washingtonpost.com	The Washington Post
472	www.webmd.com	WebMD, Medical Advisor
473	www.weightymatters.ca	Yoni Freedhoff Food Blog
474	www.who.int	World Health Organisation
475	www.wiley.com	Wiley Knowledge Database
476	www.wired.com	Wired Magazine IT&T
477	www.wnyc.org	WNYC Radio Station
478	www.worldhomeopathy.org	World Homeopathy Awareness Organisation
479	www.york.ac.uk	University of York
480	www.youtube.com	Youtube, Google
481	www.zhshen.com.cn	Zhshen, Forum
482	www.cochrane.org	The Cochrane Collaboration
483	www2.psych.purdue.edu	Purdue University Institute Psychological Sciences

Appendix D: List of domains with organisation type

Table 10: List of identified domains with organisation type

id	Domain	Type Web	Type Actor role
1	171.66.127.115	Journal	Publisher
2	171.67.114.118	Journal	Publisher
3	1boringgoldman.com	Blog	Author
4	1jessicakes.wordpress.com	Blog	Author
5	add.my.yahoo.com	Content Provider	Publisher
6	adsabs.harvard.edu	Library	Conductor
7	adultomayor.medicasur.com.mx	Clinic	Conductor
8	aidwriting.wordpress.com	Blog	Author
9	aje.oxfordjournals.org	Journal	Publisher
10	ajp.psychiatryonline.org	Journal	Publisher
11	andrewgelman.com	Blog	Author
12	apgaylard.wordpress.com	Blog	Author
13	apps.who.int	UNO	Advisor
14	archinte.ama-assn.org	Journal	Publisher
15	archinte.jamanetwork.com	Journal	Publisher
16	archpedi.ama-assn.org	Journal	Publisher
17	archpsyc.ama-assn.org	Journal	Publisher
18	arks.princeton.edu	Library	Conductor
19	arthritis-research.com	Journal	Publisher
20	article.wn.com	News	Publisher
21	arxiv.org	Library	Conductor
22	autismitsgutstupid.wordpress.com	Blog	Author
23	bactra.org	Homepage	Author
24	badscience.net	Blog	Author

id	Domain	Type Web	Type Actor role
25	barenormality.wordpress.com	Blog	Author
26	bengoldacre.posterous.com	Blog	Author
27	bigthink.com	Forum	Publisher
28	biostatistics.oxfordjournals.org	Journal	Publisher
29	biotechisthefuture.wordpress.com	Blog	Author
30	bipolarsoupkitchen-stephany.blogspot.com	Blog	Author
31	bit.ly	Internet Service	Publisher
32	bjp.rcpsych.org	Journal	Publisher
33	blogs.discovermagazine.com	Magazine	Publisher
34	blogs.forbes.com	Magazine	Publisher
35	blogs.nature.com	Blog	Authors
36	blogs.plos.org	Blog	Publisher
37	bloodjournal.hematologylibrary.org	Journal	Publisher
38	bmj.com	Journal	Publisher
39	books.google.at	Library	Publisher
40	books.google.com	Library	Publisher
41	botd.wordpress.com	Blog	Publisher
42	brain.oxfordjournals.org	Journal	Publisher
43	brainsidea.wordpress.com	Blog	Author
44	breast-cancer-research.com	Journal	Publisher
45	brendan-nyhan.tumblr.com	Blog	Author
46	brucelynnblog.wordpress.com	Blog	Author
47	cardiobrief.org	Blog	Author
48	careandcost.com	Blog	Authors
49	carolynthomas.wordpress.com	Blog	Author
50	cedarsdigest.wordpress.com	Blog	Author
51	cfredlevy.wordpress.com	Blog	Author
52	chemport.cas.org	Content Provider	Publisher
53	chestjournal.chestpubs.org	Journal	Publisher
54	chimerasthebooks.blogspot.com	Blog	Author
55	chrisblattman.com	Blog	Author
56	chronicle.com	News	Publisher
57	cid.oxfordjournals.org	Journal	Publisher
58	circ.ahajournals.org	Journal	Publisher
59	circoutcomes.ahajournals.org	Journal	Publisher
60	citec.repec.org	Advisor	Evaluator
61	clinicaltrials.ploshubs.org	Journal	Publisher
62	cogprints.org	Library	Publisher
63	community.wdtdy.com	Journal	Publisher
64	content.apa.org	Content Provider	Publisher
65	content.nejm.org	Journal	Publisher
66	content.onlinejacc.org	Journal	Publisher
67	crookedtimber.org	Blog	Authors
68	cscs.umich.edu	University	Conductor
69	culturingscience.wordpress.com	Blog	Author
70	dannyreviews.com	Book Reviewer	Reviewer
71	deevybee.blogspot.com	Blog	Author
72	depot.gdnet.org	Content Provider	Conductor
73	digg.com	Content Provider	Publisher
74	direct.bl.uk	Library	Publisher
75	dl.dropbox.com	Online Backup service	Publisher
76	doi.wiley.com	Library	Publisher
77	dontdontoperate.wordpress.com	Blog	Author
78	download.thelancet.com	Journal	Publisher
79	downloads.hindawi.com	Review Article; PDF	Reviewer
80	drinkingwateradvisor.wordpress.com	Blog	Author
81	dro.deakin.edu.au	University	Conductor
82	dx.crossref.org	Research Network	Publisher
83	dx.doi.org	Internet Service	Publisher
84	dx.plos.org	Journal	Publisher
85	e-patients.net	Blog	Authors
86	econ.la.psu.edu	University	Conductor
87	econfaculty.gmu.edu	University	Conductor

id	Domain	Type Web	Type Actor role
88	econpapers.repec.org	Library	Publisher
89	en.m.wikipedia.org	Content Provider	Publisher
90	en.wikipedia.org	Content Provider	Publisher
111	goodscience.wordpress.com	Blog	Author
92	ep-ology.blogspot.com	Blog	Author
93	epm.sagepub.com	Journal	Publisher
94	eprints.soton.ac.uk	University	Conductor
95	eprints.whiterose.ac.uk	Research Network	Publisher
96	espace.library.uq.edu.au	University	Conductor
97	ethicalnag.org	Blog	Author
98	eurheartj.oxfordjournals.org	Journal	Publisher
99	feedproxy.google.com	Content Provider	Publisher
100	feeds.feedburner.com	Content Provider	Publisher
101	feeds2.feedburner.com	Content Provider	Publisher
102	filedrawer.wordpress.com	Blog	Publisher
103	filipsagnoli.wordpress.com	Blog	Author
104	fohs.bgu.ac.il	University	Conductor
105	forums.randi.org	Forum	Publisher
106	frwebgate.access.gpo.gov	Meeting, PDF	Author
107	gameswithwords.fieldofscience.com	Blog	Author
108	gateway.webofknowledge.com	Online Citation Index	Publisher
109	gimpyblog.wordpress.com	Blog	Author
110	goodbyelab.blog.so-net.ne.jp	Blog	Author
113	gryffinstail.wordpress.com	Blog	Author
112	gooznews.com	Blog	Author
371	goodscience.wordpress.com	Blog	Author
114	gu.com	News	Publisher
115	hardsci.wordpress.com	Blog	Author
116	hawk-handsaw.blogspot.com	Blog	Author
117	helmetfreedom.org	Blog	Author
118	homeopathy4health.wordpress.com	Blog	Author
119	homeopathyblogs.blogspot.com	Blog	Author
120	humrep.oxfordjournals.org	Journal	Publisher
121	humupd.oxfordjournals.org	Journal	Publisher
122	i-perception.perceptionweb.com	Journal	Publisher
123	ideas.repec.org	Library	Publisher
124	ije.oxfordjournals.org	Journal	Publisher
125	images.the-scientist.com	Journal, PDF	Publisher
126	ithelp.hendrix.edu	University	Publisher
127	ja.wikipedia.org	Content Provider	Publisher
128	jajamos.wordpress.com	Blog	Author
129	jama.ama-assn.org	Journal	Publisher
130	jama.jamanetwork.com	Journal	Publisher
131	jamia.bmj.com	Journal	Publisher
132	jco.ascopubs.org	Journal	Publisher
133	jech.bmj.com	Journal	Publisher
134	jeps.efpsa.org	Journal	Publisher
135	jerome23.wordpress.com	Blog	Author
136	jnci.oxfordjournals.org	Journal	Publisher
137	joannenova.com.au	Blog	Author
138	johnbenneth.wordpress.com	Blog	Author
139	journals.cambridge.org	Journal	Publisher
140	journals.lww.com	Journal	Publisher
141	jpkc.hrbmu.edu.cn	University	Conductor
142	jt512.dyndns.org	Blog	Author
143	ksjtracker.mit.edu	Content Provider	Publisher
144	la.rsmjournals.com	Journal	Publisher
145	laikaspoetnik.wordpress.com	Blog	Author
146	laughingmysocksoff.wordpress.com	Blog	Author
147	leftbrainrightbrain.co.uk	Blog	Author
148	legacy.library.ucsf.edu	Library	Publisher
149	lesswrong.com	Blog	Author
150	leucemiafz.blogspot.com	Blog	Author

id	Domain	Type Web	Type Actor role
151	library.deakin.edu.au	Library	Publisher
152	linkinghub.elsevier.com	Research	Publisher
153	links.isiglobalnet2.com		
154	logbase2.blogspot.com	Blog	Author
155	logec.repec.org	Research Network	Publisher
156	login.medscape.com	Research Network	Publisher
157	maps.google.at	Content Provider	Publisher
158	maps.google.com	Content Provider	Publisher
159	marginalrevolution.com	Blog	Authors
160	marilynmann.wordpress.com	Blog	Author
161	maximum-entropy-blog.blogspot.com	Blog	Author
162	media.wiley.com	Content Provider	Publisher
163	medicalmediawatch.wordpress.com	Blog	Authors
164	medicalxpress.com	News	Publisher
165	medicine.plosjournals.org	Journal	Publisher
166	minochahealth.typepad.com	Blog	Author
167	mirror.nber.org	Research	Conductor
168	mpira.ub.uni-muenchen.de	Content Provider	Publisher
169	mres.gmu.edu	Homepage	Conductor
170	ndt.oxfordjournals.org	Journal	Publisher
171	neurochambers.blogspot.com	Blog	Author
172	neuroskeptic.blogspot.co.uk	Blog	Author
173	neuroskeptic.blogspot.com	Blog	Author
174	newhumanist.org.uk	Magazine	Publisher
175	nojesusnopeas.blogspot.com	Blog	Author
176	norvig.com	Homepage	Author
177	olinks.ohiolink.edu	Internet Service	Publisher
178	onlinelibrary.wiley.com	Library	Publisher
179	openmedicineeu.blogactiv.eu	Blog	Author
180	openurl.ebscohost.com	Library	Publisher
181	openurl.ingenta.com	Library	Publisher
182	organisationsandmarkets.com	Blog	Authors
183	ovidsp.ovid.com	Content Provider	Publisher
184	page.mi.fu-berlin.de	Content Provider	Publisher
185	papergirls.wordpress.com	Blog	Author
186	papers.ssrn.com	Research Network	Publisher
187	pathsoflight.us	Blog	Author
188	pdn.sciencedirect.com	Content Provider	Publisher
189	pdresources.wordpress.com	Blog	Author
190	pediatrics.aappublications.org	Journal	Publisher
191	pigee.wordpress.com	Blog	Authors
192	prescriptions.blogs.nytimes.com	Blog	Authors
193	press.psprings.co.uk	Journal	Publisher
194	psych-your-mind.blogspot.com	Blog	Authors
195	psychfiledrawer.org	Library	Publisher
196	psychologicalstatistics.blogspot.com	Blog	Author
197	psychrights.org	NPO	Advisor
198	psycnet.apa.org	Content Provider	Publisher
199	pubget.com	Content Provider	Publisher
200	pubmedcentralcanada.ca	Content Provider	Publisher
201	pyjamasinbananas.blogspot.com	Blog	Author
202	radiology.rsna.org	Journal	Publisher
203	radiology.rsna.jnl.org	Journal	Publisher
204	rationalwiki.org	Content Provider	Publisher
205	rd.springer.com	Content Provider	Publisher
206	rds185.epi-ucsf.org	Enterprise	Conductor
207	referentiel-autisme.fr	Blog	Author
208	researchblogging.org	Blog	Authors
209	restructure.wordpress.com	Blog	Author
210	retractionwatch.wordpress.com	Blog	Author
211	rjwaldmann.blogspot.com	Blog	Author
212	rss.wn.com	News	Publisher
213	rxoutcomesadviser.wordpress.com	Blog	Author

id	Domain	Type Web	Type Actor role
214	scholar.google.at	Content Provider	Publisher
215	scholar.google.co.uk	Content Provider	Publisher
216	scholar.google.com	Content Provider	Publisher
217	scholar.googleusercontent.com	Content Provider	Publisher
218	scienceandinnovation.wordpress.com	Blog	Author
219	scienceblogs.com	Blog	Authors
220	scienceofsickness.wordpress.com	Blog	Author
221	seedmagazine.com	Magazine	Publisher
222	simondenegri.com	Blog	Publisher
223	simondenegri.wordpress.com	Blog	Publisher
224	sitemaker.umich.edu	Website Provider	Conductor
225	skepdic.com	Content Provider	Publisher
226	smm.sagepub.com	Journal	Publisher
227	smr.sagepub.com	Journal	Publisher
228	ssrn.com	Research network	Publisher
229	statistical-solutions-software.com	Enterprise	Conductor
230	stemcellassays.com	Blog	Authors
231	strategyprofs.wordpress.com	Blog	Authors
232	stroke.ahajournals.org	Journal	Publisher
233	structureofentropy.wordpress.com	Blog	Author
234	sydney.edu.au	University	Conductor
235	talyarkoni.org	Homepage	Author
236	the-scientist.com	Magazine	Publisher
237	thelastpsychiatrist.com	Blog	Author
238	theness.com	NPO	Conductor
239	theoncologist.alphamedpress.org	Journal	Publisher
240	thereisnowetware.wordpress.com	Blog	Author
241	thesciencechat.wordpress.com	Blog	Authors
242	tinycloud.com	Internet Service	Publisher
243	toolservr.org	Content provider	Publisher
244	translate.google.at	Internet Service	Publisher
245	translate.google.com	Internet Service	Publisher
246	tspace.library.utoronto.ca	Library	Publisher
247	twitter.com	Social Network	Publisher
248	ukpmc.ac.uk	Content Provider	Publisher
249	value-strategies.blogspot.com	Blog	Publisher
250	vedantatoday.wordpress.com	Blog	Author
251	view.ncbi.nlm.nih.gov	Research	Conductor
252	vts.uni-ulm.de	Library	Conductor
253	w02.biomedcentral.com	Journal	Publisher
254	w09.biomedcentral.com	Journal	Publisher
255	wapo.st	News	Publisher
256	web.archive.org	Library	Publisher
257	webcache.googleusercontent.com	Forum	Publisher
258	whyevolutionistrue.wordpress.com	Blog	Author
259	wilcox.wordpress.com	Blog	Author
260	wn.com	News	Publisher
261	wp.me	Blog Provider	Publisher
262	ws.isiknowledge.com	Homepage	Publisher
263	www.1boringgoldman.com	Blog	Author
264	www.aafnh.org	Blog	Authors
265	www.acsh.org	NPO	Publisher
266	www.ajcn.org	Journal	Publisher
267	www.ajnr.org	Journal	Publisher
268	www.ajpmonline.org	Journal	Publisher
269	www.ajronline.org	Journal	Publisher
270	www.alibris.com	Enterprise	Publisher
271	www.ama-assn.org	Publisher	Publisher
272	www.amazon.com	Enterprise	Publisher
273	www.amazon.de	Enterprise	Publisher
274	www.anesthesia-analgesia.org	Journal	Publisher
275	www.annals-general-psychiatry.com	Journal	Publisher
276	www.annals.org	Journal	Publisher

id	Domain	Type Web	Type Actor role
277	www.annemergmed.com	Journal	Publisher
278	www.anthromed.org	Library	Publisher
279	www.antidepressantsfacts.com	Homepage	Publisher
280	www.anu.edu.au	University	Conductor
281	www.badsience.net	Blog	Author
282	www.bbmt.org	Journal	Publisher
283	www.beforeyoutakethatpill.com	Blog	Author
284	www.biomedcentral.com	Publisher	Publisher
285	www.biomedsearch.com	Library	Publisher
286	www.bioone.org	Library	Publisher
287	www.blogger.com	Blog	Publisher
288	www.bmj.com	Journal	Publisher
289	www.bookfayre.cz	Enterprise	Publisher
290	www.bookfayre.sk	Enterprise	Publisher
291	www.brendan-nyhan.com	Blog	Author
292	www.businesswire.com	Press Release	Publisher
293	www.camarades.info	Collaboration	Reviewer
294	www.cardioexchange.org	Forum	Editor
295	www.carg.cochrane.org	Homepage	Editor
296	www.cepr.org	Research	Conductor
297	www.childrensmercy.org	Clinic	Publisher
298	www.cirp.org	Library	Publisher
299	www.clinchem.org	Journal	Publisher
300	www.cmaj.ca	Journal	Publisher
301	www.cochrane-net.org	Collaboration	Conductor
302	www.cochrane.it	Collaboration	Conductor
303	www.cochrane.org	Collaboration	Conductor
304	www.coedu.usf.edu	University	Conductor
305	www.cof.org.cn	Forum	Authors
306	www.cogsci.nl	Blog	Author
307	www.collide-a-scape.com	Blog	Author
308	www.connectedaction.net	Blog	Author
309	www.connotea.org	Library	Publisher
310	www.controlled-trials.com	Publisher	Publisher
311	www.crd.york.ac.uk	Research	Conductor
312	www.cscop.org	Journal	Publisher
313	www.cycle-helmets.com	Homepage	Publisher
314	www.dcn.ed.ac.uk	Research	Conductor
315	www.dcsience.net	Blog	Author
316	www.deakin.edu.au	University	Conductor
317	www.deepdyve.com	Enterprise	Publisher
318	www.ecmaj.ca	Journal	Publisher
319	www.economist.com	Magazine	Publisher
320	www.economistsdoitwithmodels.com	Blog	Author
321	www.effectivehealthcare.ahrq.gov	USA	Publisher
322	www.ejbs.org	Journal	Publisher
323	www.ejcancer.info	Journal	Publisher
324	www.emlitofnote.com	Blog	Author
325	www.epi-perspectives.com	Journal	Publisher
326	www.epidem.com	Journal	Publisher
327	www.ete-online.com	Journal	Publisher
328	www.eurekalert.org	Homepage	Publisher
329	www.experiment-resources.com	Homepage	Publisher
330	www.facebook.com	Social Network	Publisher
331	www.fda.gov	USA	Publisher
332	www.forbes.com	Magazine	Publisher
333	www.foxnews.com	News	Publisher
334	www.garfield.library.upenn.edu	Homepage	Publisher
335	www.gastrojournal.org	Journal	Publisher
336	www.goodbadandbogus.com	Blog	Author
337	www.google.at	Content Provider	Publisher
338	www.google.co.uk	Content Provider	Publisher
339	www.google.com	Content Provider	Publisher

id	Domain	Type Web	Type Actor role
340	www.guardian.co.uk	News	Publisher
341	www.guern.net	Blog	Author
342	www.h2mw.eu	Blog	Editor
343	www.harmreductionjournal.com	Journal	Publisher
344	www.hawk-handsaw.blogspot.com	Blog	Author
345	www.hcplive.com	Content Provider	Publisher
346	www.hcval.com	Blog	Editor
347	www.healthnewsreview.org	Homepage	Publisher
348	www.helenjaques.co.uk	Blog	Editor
349	www.hendrix.edu	University	Conductor
350	www.hindawi.com	Publisher	Publisher
351	www.homeopathy.org	Homepage	Lobbyist
352	www.hta.ac.uk	Research	Conductor
353	www.icmje.org	Advisor	Advisor
354	www.iiis.org	Journal	Publisher
355	www.ima.org.il	Journal	Publisher
356	www.imbi.uni-freiburg.de	University	Conductor
357	www.independent.co.uk	News	Publisher
358	www.isaiadis.com	Blog	Author
359	www.jad-journal.com	Journal	Publisher
360	www.jameslindlibrary.org	Library	Publisher
361	www.jbjs.org	Journal	Publisher
362	www.jclinepi.com	Journal	Publisher
363	www.jco.org	Journal	Publisher
364	www.jdentaled.org	Journal	Publisher
365	www.jeccr.com	Journal	Publisher
366	www.jmir.org	Journal	Publisher
367	www.josonline.org	Journal	Publisher
368	www.journals.elsevierhealth.com	Library	Publisher
369	www.jrsm.rsmjournals.com	Journal	Publisher
370	www.jstor.org	Library	Publisher
371	www.jucs.org	Collaboration	Publisher
372	www.kjronline.org	Journal	Publisher
373	www.kk.org	Homepage	Author
374	www.labome.org	Social Network	Publisher
375	www.lancet.com	Journal	Publisher
376	www.lavoisier.fr	Library	Publisher
377	www.leg.bc.ca	Homepage	Publisher
378	www.libri.de	Enterprise	Publisher
379	www.lungcancerjournal.info	Journal	Publisher
380	www.ma.utexas.edu	University	Conductor
381	www.malariajournal.com	Journal	Publisher
382	www.marginalrevolution.com	Publisher	Publisher
383	www.medicalacupuncture.org	Publisher	Publisher
384	www.medicalnewstoday.com	Publisher	Publisher
385	www.medicine.ox.ac.uk	University	Conductor
386	www.mendeley.com	Research Network	Publisher
387	www.meta-analysis.com	Enterprise	Publisher
388	www.mhra.gov.uk	UK	Publisher
389	www.mi.uni-hamburg.de	University	Conductor
390	www.mrc-bsu.cam.ac.uk	Research	Conductor
391	www.mrw.interscience.wiley.com	Library	Publisher
392	www.myhealthnewsdaily.com	Homepage	Authors
393	www.nature.com	Publisher	Publisher
394	www.nber.org	Collaboration	Conductor
395	www.ncahf.org	Content Provider	Publisher
396	www.ncbi.nlm.nih.gov	Library	Publisher
397	www.nceas.ucsb.edu	University	Conductor
398	www.ncri.org.uk	Collaboration	Publisher
399	www.nejm.org	Journal	Publisher
400	www.news-medical.net	Forum	Publisher
401	www.newyorker.com	Magazine	Publisher
402	www.nice.org.uk	Advisor	Advisor

id	Domain	Type Web	Type Actor role
403	www.nlm.nih.gov	Library	Publisher
404	www.numberwatch.co.uk	Homepage	Author
405	www.nutrition-matters.co.uk	Enterprise	Publisher
406	www.oarsijournal.com	Journal	Publisher
407	www.out.ac.tz	University	Conductor
408	www.overcomingbias.com	Blog	Author
409	www.pashler.com	Homepage	Author
410	www.pbm.va.gov	USA	Publisher
411	www.pediatrics.org	Journal	Publisher
412	www.perceptionweb.com	Journal	Publisher
413	www.plos.org	Library	Publisher
414	www.plosbiology.org	Journal	Publisher
415	www.plosmedicine.org	Journal	Publisher
416	www.plosone.org	Journal	Publisher
417	www.pmean.com	Content Provider	Publisher
418	www.pnas.org	Journal	Publisher
419	www.pophealthmetrics.com	Journal	Publisher
420	www.populartechology.net	Blog	Authors
421	www.psychfiledrawer.org	Library	Publisher
422	www.psychologicalscience.org	NPO	Publisher
423	www.psychologyreplications.org	Library	Publisher
424	www.pubmedcentral.gov	Library	Publisher
425	www.pubmedcentral.nih.gov	Library	Publisher
426	www.qjps.com	University	Conductor
427	www.quackometer.net	Internet Service	Publisher
428	www.quackwatch.org	Library	Publisher
429	www.reproductive-health-journal.com	Journal	Publisher
430	www.researchblogging.org	Blog	Publisher
431	www.researchgate.net	Social Network	Publisher
432	www.richardwellsresearch.com	Research	Conductor
433	www.ro-journal.com	Journal	Publisher
434	www.scholaruniverse.com	Content Provider	Publisher
435	www.scielo.org	Library	Publisher
436	www.sciencebasedmedicine.org	Publisher	Publisher
437	www.sciencedirect.com	Content Provider	Publisher
438	www.scientificamerican.com	Magazine	Publisher
439	www.scientificexploration.org	Journal	Publisher
440	www.scopus.com	Content Provider	Publisher
441	www.skeptdic.com	Internet Service	Publisher
442	www.skepticalscience.com	Reviewer	Reviewer
443	www.skepticreport.com	Publisher	Publisher
444	www.slackjournals.com	Content Provider	Publisher
445	www.smw.ch	Journal	Publisher
446	www.spiked-online.com	Magazine	Publisher
447	www.springerlink.com	Library	Publisher
448	www.ssrn.com	Research Network	Conductor
449	www.stanford.edu	University	Conductor
450	www.stat.columbia.edu	University	Conductor
451	www.stata-press.com	Publisher	Publisher
452	www.stata.com	Enterprise	Publisher
453	www.statistical-solutions-software.com	Enterprise	Publisher
454	www.statsdirect.com	Enterprise	Publisher
455	www.stemcellassays.com	Journal	Publisher
456	www.substanceabusepolicy.com	Journal	Publisher
457	www.supremecourt.gov	USA	Publisher
458	www.talyarkoni.org	Homepage	Author
459	www.tamui.edu	University	Conductor
460	www.tandfonline.com	Content Provider	Publisher
461	www.ted.com	Content Provider	Publisher
462	www.theatlantic.com	Magazine	Publisher
463	www.thecochranelibrary.com	Collaboration	Conductor
464	www.thelancet.com	Journal	Publisher
465	www.thepsychologist.org.uk	Forum	Publisher

id	Domain	Type Web	Type Actor role
466	www.timeshighereducation.co.uk	Magazine	Publisher
467	www.tobaccoharmreduction.org	Content Provider	Publisher
468	www.trialsjournal.com	Journal	Publisher
469	www.usatoday.com	News	Publisher
470	www.vapersforum.com	Forum	Publisher
471	www.washingtonpost.com	News	Publisher
472	www.webmd.com	Library	Publisher
473	www.weightymatters.ca	Blog	Publisher
474	www.who.int	UNO	Advisor
475	www.wiley.com	Content Provider	Publisher
476	www.wired.com	Magazine	Publisher
477	www.wnyc.org	Content Provider	Publisher
478	www.worldhomeopathy.org	NPO	Publisher
479	www.york.ac.uk	University	Conductor
480	www.youtube.com	Content Provider	Publisher
481	www.zhshen.com.cn	Forum	Publisher
482	www.cochrane.org	Collaboration	Conductor
483	www2.psych.purdue.edu	University	Conductor

Appendix E: List of identified literature

Literature collected by crawling the web for ‘publication bias’, sorted by title

A genome-wide association study of Cloninger’s temperament scales: Implications for the evolutionary genetics of personality

Type	Journal Article
Authors	Karin J H Verweij, Brendan P Zietsch, Sarah E Medland, Scott D Gordon, Beben Benyamin, Dale R Nyholt, Brian P Mcevoy, Patrick F Sullivan, Andrew C Heath, Pamela A F Madden, Anjali K Henders, Grant W Montgomery, Nicholas G Martin, Naomi R Wray
Publication	Biological Psychology
Volume	85
Issue	2
Pages	306–317
Date	2010
DOI	10.1016/j.biopsycho.2010.07.018
ISSN	0301-0511
URL	http://dx.doi.org/10.1016/j.biopsycho.2010.07.018
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59
Tags	association genome-wide

A meta-analysis of estimates of urban agglomeration economies

Type	Journal Article
Authors	Patricia C Melo, Daniel J Graham, Robert B Noland
Publication	Regional Science and Urban Economics
Volume	39
Issue	3
Pages	332–342
Date	2009
DOI	10.1016/j.regsciurbeco.2008.12.002
ISSN	0166-0462

URL <http://dx.doi.org/10.1016/j.regsciurbeco.2008.12.002>

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

A meta-analytic study on the effectiveness of comprehensive ABA-based early intervention programs for children with Autism Spectrum Disorders

Type Journal Article

Authors Nienke Peters-Scheffer, Robert Didden, Hubert Korzilius, Peter Sturmey

Publication Research in Autism Spectrum Disorders

Volume 5

Issue 1

Pages 60–69

Date January 2011

DOI 10.1016/j.rasd.2010.03.011

ISSN 17509467

URL <http://linkinghub.elsevier.com/retrieve/pii/S1750946710000498>

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Tags analysis applied Behavior

A Review of Estimates of the Schooling/Earnings Relationship, with Tests for Publication Bias

Type Journal Article

Authors Orley Ashenfelter, Colm Harmon, Hessel Oosterbeek

Date 2000

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

A systematic review of systematic reviews of homeopathy

Type Journal Article

Author E Ernst

Abstract Homeopathy remains one of the most controversial subjects in therapeutics. This article is an attempt to clarify its effectiveness based on recent systematic reviews. Electronic databases were searched for systematic reviews/meta-analysis on the subject. Seventeen articles fulfilled the inclusion/exclusion criteria. Six of them related to re-analyses of one landmark meta-analysis. Collectively they implied that the overall positive result of this meta-analysis is not supported by a critical analysis of the data. Eleven independent systematic reviews were located. Collectively they failed to provide strong evidence in favour of homeopathy. In particular, there was no condition which responds convincingly better to homeopathic treatment than to placebo or other control interventions. Similarly, there was no homeopathic remedy that was demonstrated to yield clinical effects that are convincingly different from placebo. It is concluded that the best clinical evidence for homeopathy available to date does not warrant positive recommendations for its use in clinical practice.

Publication British journal of clinical pharmacology

Volume 54

Issue 6

Pages 577–82

Date December 2002

ISSN 0306-5251

URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1874503&tool=pmcentrez&...>

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Tags Arnica, Bibliographic, Clinical Trials as Topic, Databases, Homeopathy, Humans, Materia Medica, Materia Medica: therapeutic use, Meta-Analysis as Topic

Accuracy of neutrophil gelatinase-associated lipocalin (NGAL) in diagnosis and prognosis in acute kidney injury: a systematic review and meta-analysis.

Type Journal Article
Authors Michael Haase, Rinaldo Bellomo, Prasad Devarajan, Peter Schlattmann, Anja Haase-Fielitz
Abstract Neutrophil gelatinase-associated lipocalin (NGAL) appears to be a promising biomarker for the early diagnosis of acute kidney injury (AKI); however, a wide range in its predictive value has been reported.
Publication American journal of kidney diseases : the official journal of the National Kidney Foundation
Volume 54
Issue 6
Pages 1012–24
Date December 2009
DOI 10.1053/j.ajkd.2009.07.020
ISSN 1523-6838
URL <http://www.ncbi.nlm.nih.gov/pubmed/19850388>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Acute Kidney Injury, Acute Kidney Injury: diagnosis, Acute Kidney Injury: metabolism, Acute-Phase Proteins, Acute-Phase Proteins: metabolism, Adult, Aged, Biological Markers, Biological Markers: metabolism, Child, Creatinine, Creatinine: blood, Female, Humans, Lipocalins, Lipocalins: metabolism, Male, Middle Aged, Predictive Value of Tests, Preschool, Prognosis, Proto-Oncogene Proteins, Proto-Oncogene Proteins: metabolism

Accuracy of procalcitonin for sepsis diagnosis in critically ill patients: systematic review and meta-analysis.

Type Journal Article
Authors Benjamin M P Tang, Guy D Eslick, Jonathan C Craig, Anthony S McLean
Abstract Procalcitonin is widely reported as a useful biochemical marker to differentiate sepsis from other non-infectious causes of systemic inflammatory response syndrome. In this systematic review, we estimated the diagnostic accuracy of procalcitonin in sepsis diagnosis in critically ill patients. 18 studies were included in the review. Overall, the diagnostic performance of procalcitonin was low, with mean values of both sensitivity and specificity being 71% (95% CI 67-76) and an area under the summary receiver operator characteristic curve of 0.78 (95% CI 0.73-0.83). Studies were grouped into phase 2 studies (n=14) and phase 3 studies (n=4) by use of Sackett and Haynes' classification. Phase 2 studies had a low pooled diagnostic odds ratio of 7.79 (95% CI 5.86-10.35). Phase 3 studies showed significant heterogeneity because of variability in sample size (meta-regression coefficient -0.592, p=0.017), with diagnostic performance upwardly biased in smaller studies, but moving towards a null effect in larger studies. Procalcitonin cannot reliably differentiate sepsis from other non-infectious causes of systemic inflammatory response syndrome in critically ill adult patients. The findings from this study do not lend support to the widespread use of the procalcitonin test in critical care settings.
Publication The Lancet infectious diseases
Volume 7
Issue 3
Pages 210–7
Date March 2007
DOI 10.1016/S1473-3099(07)70052-X
ISSN 1473-3099
URL <http://www.ncbi.nlm.nih.gov/pubmed/17317602>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Biological Markers, Biological Markers: blood, Calcitonin, Calcitonin: blood, Critical Illness, Diagnosis, Differential, Emergency Medical Services, Emergency Medical Services: methods, Humans, Predictive Value of Tests, Protein Precursors, Protein Precursors: blood, Sensitivity and Specificity, Sepsis, Sepsis: diagnosis, Systemic Inflammatory Response Syndrome, Systemic Inflammatory Response Syndrome: diagnosis

Adherence to placebo and mortality in the Beta Blocker Evaluation of Survival Trial (BEST).

Type Journal Article
Author Alice Pressman, Andrew L Avins, John Neuhaus, Lynn Ackerson, Peter Rudd
Abstract Randomized controlled trials have reported lower mortality among patients who adhere to placebo compared with those who do not. We explored this phenomenon by reanalyzing data from the placebo arm of the Beta Blocker Evaluation of Survival Trial (BEST), a randomized, double-blind, placebo-controlled trial of bucindolol and

mortality.

Publication Contemporary clinical trials

Volume 33

Issue 3

Pages 492–8

Date May 2012

DOI 10.1016/j.cct.2011.12.003

ISSN 1559-2030

URL <http://www.ncbi.nlm.nih.gov/pubmed/22265975>

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Tags Adrenergic beta-Antagonists, Adrenergic beta-Antagonists: therapeutic use, Confidence Intervals, Double-Blind Method, Female, Humans, Hypertension, Hypertension: drug therapy, Hypertension: mortality, Kaplan-Meier Estimate, Male, Medication Adherence, Middle Aged, Placebo Effect, Placebos, Placebos: pharmacology, Propranolamines, Propranolamines: therapeutic use, Treatment Outcome, United States

Almost all articles on cancer prognostic markers report statistically significant results.

Type Journal Article

Authors Panayiotis A Kyzas, Despina Denaxa-Kyza, John P A Ioannidis

Abstract We aimed to understand the extent of the pursuit for statistically significant results in the prognostic literature of cancer. We evaluated 340 articles included in prognostic marker meta-analyses (Database 1) and 1575 articles on cancer prognostic markers published in 2005 (Database 2). For each article, we examined whether the abstract reported any statistically significant prognostic effect for any marker and any outcome ('positive' articles). 'Negative' articles were further examined for statements made by the investigators to overcome the absence of prognostic statistical significance. We also examined how the articles of Database 1 had presented the relative risks that were included in the respective meta-analyses. 'Positive' prognostic articles comprised 90.6% and 95.8% in Databases 1 and 2, respectively. Most of the 'negative' prognostic articles claimed significance for other analyses, expanded on non-significant trends or offered apologies that were occasionally remote from the original study aims. Only five articles in Database 1 (1.5%) and 21 in Database 2 (1.3%) were fully 'negative' for all presented results in the abstract and without efforts to expand on non-significant trends or to defend the importance of the marker with other arguments. Of the statistically non-significant relative risks in the meta-analyses, 25% had been presented as statistically significant in the primary papers using different analyses compared with the respective meta-analysis. We conclude that almost all articles on cancer prognostic marker studies highlight some statistically significant results. Under strong reporting bias, statistical significance loses its discriminating ability for the importance of prognostic markers.

Publication European journal of cancer (Oxford, England : 1990)

Volume 43

Issue 17

Pages 2559–79

Date November 2007

DOI 10.1016/j.ejca.2007.08.030

ISSN 0959-8049

URL <http://www.ncbi.nlm.nih.gov/pubmed/17981458>

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Tags Biological, Biological: metabolism, Humans, Journalism, Medical, Medical: standards, Neoplasms, Neoplasms: mortality, Periodicals as Topic, Periodicals as Topic: standards, Prognosis, Publication Bias, Risk Factors Tumor Markers

An Overview of Positive Homeopathy Research and Surveys The European Network of Homeopathic Researchers March 2005

Type Journal Article

Author European-Network-for-Homeopathy-Researchrs

Issue March

Pages 1–12

Date 2005

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Appendix 1 : Data Extraction Sheet – Systematic Reviews of Treatment (web-only)

Type Journal Article

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Assessing publication bias in genetic association studies : evidence from a recent meta-analysis

Type Journal Article

Authors Taane G Clark, Jonathan Flint, Marcus R Munafo

Volume 129

Pages 39–44

Date 2004

DOI 10.1016/j.jpsychres.2004.06.011

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Tags genetic association, meta-analysis, personality, Publication Bias

Assessment of publication bias, selection bias, and unavailable data in meta-analyses using individual participant data: a database survey

Type Journal Article

Authors I. Ahmed, a. J. Sutton, R. D. Riley

Publication Bmj

Volume 344

Issue jan03 1

Pages d7762–d7762

Date January 2012

DOI 10.1136/bmj.d7762

ISSN 0959-8138

URL <http://www.bmj.com/cgi/doi/10.1136/bmj.d7762>

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Bone & Joint Medicine

Type Journal Article

Authors Jim Bertouch, Geoff Littlejohn, Peter Brooks, Peter Nash, Richard Day, Nicholas Pocock, Ian Reid, Peter Ebeling, Philip Sambrook, John Hart, Ego Seeman, Michael Hooper, David Sonnabend, Julien de Jager

Date 2003

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Breast-conserving surgery with or without radiotherapy in women with ductal carcinoma in situ: a meta-analysis of randomized trials

Type Journal Article

Authors Gustavo A Viani, Eduardo J Stefano, Sérgio L Afonso, Lígia I De Fendi, Francisco V Soares, Paola G Leon, Flavio S Guimarães

Abstract To investigate whether Radiation therapy (RT) should follow breast conserving surgery in women with ductal carcinoma in situ from breast cancer (DCIS) with objective of decreased mortality, invasive or non invasive recurrence, distant metastases and contralateral breast cancer rates. We have done a meta-analysis of these results to give a more balanced view of the total evidence and to increase statistical precision.

Publication Radiation oncology (London, England)

Volume 2

Pages 28
Date January 2007
DOI 10.1186/1748-717X-2-28
ISSN 1748-717X
URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1952067&tool=pmcentrez&...>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Adjuvant, Adjuvant: methods, Breast, Breast Neoplasms, Breast Neoplasms: radiotherapy, Breast Neoplasms: surgery, Breast: surgery, Carcinoma, Disease-Free Survival, Female, Humans, Intraductal, Mastectomy, Neoplasm Metastasis, Noninfiltrating, Noninfiltrating: radiother, Noninfiltrating: surgery, Radiotherapy, Randomized Controlled Trials as Topic, Recurrence, Reproducibility of Results, Segmental, Segmental: methods Treatment Outcome

Car drivers' perceptions of electronic stability control (ESC) systems.

Type Journal Article
Authors Anna Vadeby, Mats Wiklund, Sonja Forward
Abstract As a way to reduce the number of car crashes different in-car safety devices are being introduced. In this paper one such application is being investigated, namely the electronic stability control system (ESC). The study used a survey method, including 2000 private car drivers (1000 driving a car with ESC and 1000 driving a car without ESC). The main objective was to investigate the effect of ESC on driver behaviour. Results show that drivers report that they drive even more carelessly when they believe that they have ESC, than when they do not. Men are more risk prone than women and young drivers more than older drivers. Using the theory of planned behaviour the results show that attitude, subjective norm and perceived control explain between 62% and 67% of driver's variation of intentions to take risks. When descriptive norm was added to the model a small but statistically significant increase was found. The study also shows that more than 35% erroneously believe that their car is equipped with an ESC system. These findings may suggest that driver behaviour could reduce the positive effect ESC has on accidents. It also shows that drivers who purchase a new car are not well informed about what kind of safety devices the car is equipped with. These findings highlight the need for more targeted information to drivers.
Publication Accident; analysis and prevention
Volume 43
Issue 3
Pages 706–13
Date May 2011
DOI 10.1016/j.aap.2010.10.015
ISSN 1879-2057
URL <http://www.ncbi.nlm.nih.gov/pubmed/21376858>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Accidents, Adolescent, Adult, Age Factors, Aged, Attitude, Automobile Driving, Automobile Driving: psychology, Automobiles, Automobiles: standards, Female, Humans, Intention, Male, Middle Aged, Motivation, Protective Devices, Risk-Taking, Sex Factors, Sweden, Traffic, Traffic: prevention & control, Young Adult

CARDIOVASCULAR DISEASE: IS THE GOVERNMENT DOING MORE HARM THAN GOOD ?

Type Journal Article
Author Committee on Government Reform
Pages 1–221
Date 1999
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Cigarette smoking during pregnancy and risk of preeclampsia: A systematic review

Type Journal Article
Authors Augustin Conde-Agudelo, Fernando Althabe, José M Belizán, Ana C Kafury-Goeta
Abstract In this systematic review of the existing evidence regarding the relationship between cigarette smoking during pregnancy and preeclampsia, studies were found through searches of MEDLINE (1966-October 31, 1998), Embase,

Popline, CINAHL, Lilacs, bibliographies of identified studies, and proceedings of meetings on preeclampsia, and also through contact with relevant researchers. No language restrictions were imposed. Only cohort and case-control studies dealing with the relationship between cigarette smoking and preeclampsia were considered. Assessment of methodologic quality and data extraction of each study were carried out by 2 authors working independently. Typical relative risks and odds ratios with 95% confidence intervals were calculated for cohort and case-control studies, respectively, with both fixed and random effects models. Twenty-eight cohort studies and 7 case-control studies including a total of 833,714 women were included. All cohort studies reported an inverse association between cigarette smoking during pregnancy and incidence of preeclampsia (typical relative risk, 0.68; 95% confidence interval, 0.67-0.69). The findings were similar for case-control studies (typical odds ratio, 0.68; 95% confidence interval, 0.57-0.81). An inverse dose-response relationship was also found. Pooled data from cohort and case-control studies showed a lower risk of preeclampsia associated with cigarette smoking during pregnancy.

Publication	American journal of obstetrics and gynecology
Volume	181
Issue	4
Pages	1026–35
Date	October 1999
ISSN	0002-9378
URL	http://www.ncbi.nlm.nih.gov/pubmed/10521771
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59
Tags	Case-Control Studies, Cohort Studies, Female, Humans, MEDLINE, Odds Ratio, Pre-Eclampsia, Pre-Eclampsia: etiology, Pregnancy, Risk Factors, Smoking Smoking: adverse effects

Cognitive neuroscience 2.0: building a cumulative science of human brain function.

Type	Journal Article
Authors	Tal Yarkoni, Russell A. Poldrack, David C Van Essen, Tor D Wager
Abstract	Cognitive neuroscientists increasingly recognize that continued progress in understanding human brain function will require not only the acquisition of new data, but also the synthesis and integration of data across studies and laboratories. Here we review ongoing efforts to develop a more cumulative science of human brain function. We discuss the rationale for an increased focus on formal synthesis of the cognitive neuroscience literature, provide an overview of recently developed tools and platforms designed to facilitate the sharing and integration of neuroimaging data, and conclude with a discussion of several emerging developments that hold even greater promise in advancing the study of human brain function.
Publication	Trends in cognitive sciences
Volume	14
Issue	11
Pages	489–96
Date	November 2010
DOI	10.1016/j.tics.2010.08.004
ISSN	1879-307X
URL	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2963679&tool=pmcentrez&...
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59
Tags	Animals, Brain, Brain Mapping, Brain: physiology, Cognition, Cooperative Behavior, Data Collection, Data Collection: methods, Diagnostic Imaging, Humans, Meta-Analysis as Topic, Neurosciences, Neurosciences: methods Statistics as Topic

Comparison of Registered and Published Primary Outcomes in Randomized Controlled Trials.

Type	Journal Article
Authors	Sylvain Mathieu, Isabelle Boutron, David Moher, Douglas G Altman, Philippe Ravaud
Abstract	As of 2005, the International Committee of Medical Journal Editors required investigators to register their trials prior to participant enrollment as a precondition for publishing the trial's findings in member journals.
Publication	JAMA : the journal of the American Medical Association
Volume	302

Issue 9
Pages 977–84
Date September 2009
DOI 10.1001/jama.2009.1242
ISSN 1538-3598
URL <http://www.ncbi.nlm.nih.gov/pubmed/19724045>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bibliometrics, Periodicals as Topic, Periodicals as Topic: standards, Periodicals as Topic: statistics & numerical data, Publication Bias, Publishing, Publishing: standards, Publishing: statistics & numerical data, Randomized Controlled Trials as Topic, Randomized Controlled Trials as Topic: standards, Randomized Controlled Trials as Topic: statistics, Registries, Registries: standards, Treatment Outcome

Conducting quantitative synthesis when comparing medical interventions: AHRQ and the Effective Health Care Program.

Type Journal Article
Authors Rongwei Fu, Gerald Gartlehner, Mark Grant, Tatyana Shamliyan, Art Sedrakyan, Timothy J Wilt, Lauren Griffith, Mark Oremus, Parminder Raina, Afisi Ismaila, Pasqualina Santaguida, Joseph Lau, Thomas a Trikalinos
Abstract This article is to establish recommendations for conducting quantitative synthesis, or meta-analysis, using study-level data in comparative effectiveness reviews (CERs) for the Evidence-based Practice Center (EPC) program of the Agency for Healthcare Research and Quality.
Publication Journal of clinical epidemiology
Volume 64
Issue 11
Pages 1187–97
Date November 2011
DOI 10.1016/j.jclinepi.2010.08.010
ISSN 1878-5921
URL <http://www.ncbi.nlm.nih.gov/pubmed/21477993>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bias (Epidemiology), Comparative Effectiveness Research, Comparative Effectiveness Research: methods, Consensus, Data Interpretation, Evidence-Based Medicine, Evidence-Based Medicine: methods, Humans, Meta-Analysis as Topic, Models, Outcome Assessment (Health Care), Outcome Assessment (Health Care): statistics & num, Review Literature as Topic, Statistical, Statistics as Topic, United States, United States Agency for Healthcare Research and Q

Contour-enhanced meta-analysis funnel plots help distinguish publication bias from other causes of asymmetry

Type Journal Article
Authors Jaime L Peters, Alex J Sutton, David R Jones, Keith R Abrams, Lesley Rushton
Abstract To present the contour-enhanced funnel plot as an aid to differentiating asymmetry due to publication bias from that due to other factors.
Publication Journal of clinical epidemiology
Volume 61
Issue 10
Pages 991–6
Date October 2008
DOI 10.1016/j.jclinepi.2007.11.010
ISSN 1878-5921
URL <http://www.ncbi.nlm.nih.gov/pubmed/18538991>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Data Interpretation, Humans, Meta-Analysis as Topic, Publication Bias, Review Literature as Topic, Statistical

Correction / Clarification about FDA The Statistical Significance of Suffering Controlling the Spread of HIV / AIDS in the Indian Subcontinent

Type Journal Article
Authors Erick Turner, Emma Veitch, Kristen Suthers, Govindasamy Agoramoorthy, Minna J Hsu
Volume 2
Issue 12
Pages 1343–1344
Date 2005
DOI 10.1371/journal.
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Could It Be Better to Discard 90% of the Data? A Statistical Paradox

Type Journal Article
Authors T. D. Stanley, Stephen B. Jarrell, Hristos Doucouliagos
Date 2009
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Criticisms of Meta-Analysis

Type Journal Article
Authors M. Borenstein, L V Hedges, J P T Higgins, H R Rothstein
Issue February
Pages 377–387
Date 2009
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Delayed publication of clinical trials in cystic fibrosis

Type Journal Article
Authors M N Hurley, A P Prayle, A R Smyth
Abstract When the publication of important trial data is delayed, or data are never published, this will prevent the proper practice of evidence based medicine through robust systematic reviews. Clinical trial registries allow researchers to interrogate the trial protocol and afford the opportunity to identify studies that have been completed and so determine the time lag between completion and publication.
Publication Journal of cystic fibrosis : official journal of the European Cystic Fibrosis Society
Volume 11
Issue 1
Pages 14–7
Date January 2012
DOI 10.1016/j.jcf.2011.08.004
ISSN 1873-5010
URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3267039&tool=pmcentrez&...>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags clinical trials, Clinical Trials as Topic, Clinical Trials as Topic: statistics & numerical d, Cystic Fibrosis, Cystic Fibrosis: therapy, Humans, Multivariate Analysis, Peer Review, Phase I as Topic, Phase I as Topic: statistics & nu, Publication Bias, Publication Bias: statistics & numerical data, Publishing, Publishing: statistics & numerical data, Registries, Research
Time Factors

Democracy and Economic Growth: A Meta-Analysis

Type Journal Article
Authors Hristos Doucouliagos, Mehmet Ali Ulubas
Volume 52
Issue 1
Pages 61–83
Date 2008
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Depression: Management of depression in primary and secondary care

Type Journal Article
Authors National Collaborating Centre, Mental Health Commissioned, Clinical Excellence
Issue 23
Pages 358
Date 2003
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Disentangling the Relationship between Ownership Concentration and Firm Performance in Emerging Markets : A Meta-Analysis

Type Journal Article
Authors Kun Wang, Greg Shailer
Date 2010
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Do Certain Countries Produce Only Positive Results? A Systematic Review of Controlled Trials

Type Journal Article
Author Andrew Vickers
Author Niraj Goyal, Robert Harland, Rebecca Rees
Volume 166
Pages 159–166
Date 1998
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags acupuncture, china, japan, MEDLINE, meta-analysis, periodicals, Publishing, randomized controlled trial, russia, taiwan

Efficacy and Safety of Quinidine Therapy for Maintenance of Sinus Rhythm After Cardioversion A Meta-Analysis of Randomized Control Trials

Type Journal Article
Author SE Coplen, EM Antman, JA Berlin, P Hewitt, TC Chalmers
Volume 83
Issue 2
Pages 1106–1116
Date 1990
DOI 10.1161/01.CIR.82.4.1106
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Estimating the value of a statistical life: The importance of omitted variables and publication bias

Type Journal Article
Authors Orley Ashenfelter, Michael Greenstone
Issue March
Date 2004
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Extent of publication bias in different categories of research cohorts: a meta-analysis of empirical studies.

Type Journal Article
Authors Fujian Song, Sheetal Parekh-Bhurke, Lee Hooper, Yoon K Loke, Jon J Ryder, Alex J Sutton, Caroline B Hing, Ian Harvey
Abstract The validity of research synthesis is threatened if published studies comprise a biased selection of all studies that have been conducted. We conducted a meta-analysis to ascertain the strength and consistency of the association between study results and formal publication.
Publication BMC medical research methodology
Volume 9
Pages 79
Date January 2009
DOI 10.1186/1471-2288-9-79
ISSN 1471-2288
URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2789098&tool=pmcentrez&...>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Cohort Studies, Empirical Research, Humans, Odds Ratio, Publication Bias, Publications, Publications: statistics & numerical data

External validity of randomised controlled trials : ‘ To whom do the results of this trial apply ?’

Type Journal Article
Author Peter M Rothwell
Volume 365
Pages 82–93
Date 2005
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Factors Affecting the Comparability of Meta-analyses and Largest Trials Results in Perinatology.

Type Journal Article
Authors J Villar, G Piaggio, G Carroli, A Donner
Abstract The objective of this report is to provide a new methodology for evaluating the performance of meta-analysis (MA) in corroborating results of large trials (LT) and to identify factors that could explain lack of similarity in the results. We used two criteria to judge the degree of similarity between a MA and the LT: (a) the ratio of the relative risk of the MA to the relative risk of the LT; and (b) the 95% confidence interval about this ratio. Furthermore, this degree of similarity was cross-tabulated with the presence or not of evidence of selective inclusion of positive studies (e.g., publication bias) as judged from ‘funnel plots’ and statistical indicators. Depending on which of our two criteria was used, we found that between 20% and 53% of the 30 MAs studied have high or very high degree of similarity with the LT. We also found strong evidence that factors influencing asymmetrical funnel plots of MA, such as publication bias, may play an important role in this degree of similarity. There was a sizeable proportion of meta-analyses that did not agree with large trial results. We recommend that funnel plots be used as a tool for identifying which MAs can mislead. However, the statistical indicators at hand are unlikely to be of use in many area of medicine considering the regrettably small number of randomized controlled trials per topic available.
Publication Journal of clinical epidemiology

Volume 50
Issue 9
Pages 997–1002
Date September 1997
ISSN 0895-4356
URL <http://www.ncbi.nlm.nih.gov/pubmed/9363033>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bias (Epidemiology), Clinical Trials as Topic, Clinical Trials as Topic: standards, Confidence Intervals, Data Interpretation, Humans, Meta-Analysis as Topic, Perinatology, Reproducibility of Results, Risk Statistical

Factors influencing the publication of health research

Type Journal Article
Authors Eugenia Cronin, Trevor Sheldon
Volume 3
Pages 351–355
Date 2004
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags accessible knowledge, base on which health-care, because of its, cumulative, decisions are made, in publication bias, meta-analysis, potential effects on the, public policy, Publication Bias, there is ongoing interest this study

Fate of abstracts published in the proceedings of the first annual Perinatal Society of Australia and New Zealand Congress in 1997.

Type Journal Article
Authors M W Davies, K R Dunster, C E East, B E Lingwood
Abstract To examine the fate of research presented at the first annual Perinatal Society of Australia and New Zealand (PSANZ) Congress in 1997, by determining: the rate of publication in peer-reviewed biomedical journals; publication rate by discipline; journals in which work was published; concordance for aims, conclusions, authors and number of study subjects; and time from presentation to publication.
Publication Journal of paediatrics and child health
Volume 38
Issue 5
Pages 501–6
Date October 2002
ISSN 1034-4810
URL <http://www.ncbi.nlm.nih.gov/pubmed/12354269>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Australia, Congresses as Topic, Medical, New Zealand, Perinatology, Periodicals as Topic, Periodicals as Topic: statistics & numerical data, Research, Societies Time Factors

Few systematic reviews exist documenting the extent of bias: a systematic review.

Type Journal Article
Authors Andrea C Tricco, Jennifer Tetzlaff, Margaret Sampson, Dean Fergusson, Elise Cogo, Tanya Horsley, David Moher
Abstract To summarize the evidence concerning bias and confounding in conducting systematic reviews (SRs).
Publication Journal of clinical epidemiology
Volume 61
Issue 5
Pages 422–34

Date May 2008
DOI 10.1016/j.jclinepi.2007.10.017
ISSN 0895-4356
URL <http://www.ncbi.nlm.nih.gov/pubmed/18394534>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bias (Epidemiology), Confounding Factors (Epidemiology), Evidence-Based Medicine, Humans, Publication Bias, Research Design, Review Literature as Topic, Terminology as Topic

Four paraoxonase gene polymorphisms in 11 212 cases of coronary heart disease and 12 786 controls : meta-analysis of 43 studies

Type Journal Article
Authors Jeremy G Wheeler, Bernard D Keavney, Hugh Watkins, Rory Collins, John Danesh
Volume 363
Pages 689–695
Date 2004
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Funding and infrastructure among large-scale clinical trials examining cardiovascular diseases in Japan : evidence from a questionnaire survey

Type Journal Article
Authors Hiroshi Sawata, Kiichiro Tsutani
Publication BMC Medical Research Methodology
Volume 11
Issue 1
Pages 148
Date 2011
DOI 10.1186/1471-2288-11-148
ISSN 1471-2288
URL <http://www.biomedcentral.com/1471-2288/11/148>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Funnel plots for detecting bias in meta-analysis: Guidelines on choice of axis.

Type Journal Article
Author Jonathan A. C. Sterne, Matthias Egger
Abstract Asymmetry in funnel plots may indicate publication bias in meta-analysis, but the shape of the plot in the absence of bias depends on the choice of axes. We evaluated standard error, precision (inverse of standard error), variance, inverse of variance, sample size and log sample size (vertical axis) and log odds ratio, log risk ratio and risk difference (horizontal axis). Standard error is likely to be the best choice for the vertical axis: the expected shape in the absence of bias corresponds to a symmetrical funnel, straight lines to indicate 95% confidence intervals can be included and the plot emphasises smaller studies which are more prone to bias. Precision or inverse of variance is useful when comparing meta-analyses of small trials with subsequent large trials. The use of sample size or log sample size is problematic because the expected shape of the plot in the absence of bias is unpredictable. We found similar evidence for asymmetry and between trial variation in a sample of 78 published meta-analyses whether odds ratios or risk ratios were used on the horizontal axis. Different conclusions were reached for risk differences and this was related to increased between-trial variation. We conclude that funnel plots of meta-analyses should generally use standard error as the measure of study size and ratio measures of treatment effect.
Publication Journal of clinical epidemiology
Volume 54
Issue 10
Pages 1046–55

Date October 2001
ISSN 0895-4356
URL <http://www.ncbi.nlm.nih.gov/pubmed/11576817>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Data Interpretation, Guidelines as Topic, Humans, Magnesium, Magnesium: therapeutic use, Meta-Analysis as Topic, Models, Myocardial Infarction, Myocardial Infarction: mortality, Myocardial Infarction: prevention & control, Randomized Controlled Trials as Topic, Randomized Controlled Trials as Topic: statistics, Selection Bias Statistical

Gefälschte Studien und nicht publizierte Daten : Auswirkung auf die Erarbeitung von Leitlinien und evidenzbasierten Empfehlungen

Type Journal Article
Authors Monika Lelgemann, Stefan Sauerland
Abstract Publikationsbias und gefälschte Studien stellen eine Gefahr für die Validität von Leitlinien, insbesondere von Leitlinienempfehlungen dar. Beide Themen sind nicht systematisch untersucht, es ist zu vermuten, dass sich Leitlinienautoren der möglichen Verzerrungseinflüsse nicht ausreichend bewusst sind. Anhand von aufgeworfenen Fragen und dem Beispiel von Leitlinien zur Depression wird möglicher Einfluss von Publikationsbias auf Leitlinien dargestellt und diskutiert, inwieweit Unterschiede zu systematischen Übersichtsarbeiten bestehen und Konsensverfahren möglicherweise vor verzerrten Empfehlungen schützen. Anhand der Affären um Werner Bezwoda (Brustkrebs-Forscher) und Scott S. Reuben (Schmerztherapie-Forscher) lässt sich zeigen, dass klinische Leitlinien meist wohl nicht oder nur minimal von gefälschten Studien beeinflusst werden. Entweder stimmen die Ergebnisse der gefälschten Studien mit anderen realen Studien überein, so dass in der Leitlinie nur die Menge der Gesamtevidenz überschätzt wird. Oder aber die gefälschte Studie steht als Evidenzbasis alleine da, so dass die Autoren der Leitlinie hieraus keine Empfehlung ableiten. Auch wenn Publikationsbias und Studienfälschung in den hier analysierten Leitlinien keinen wesentlichen Einfluss hatten, empfiehlt es sich dennoch, dass Leitlinienautoren dieses Problems bedenken und es durch systematische Reviews, detaillierte Studienbewertung und vorsichtige Empfehlungsformulierung möglichst umfassend ausschließen.
Publication Theriogenology
Volume 104
Issue 4
Pages 284–291
Date 2010
DOI 10.1016/j.zefq.2010.03.035
ISSN 1865-9217
URL <http://dx.doi.org/10.1016/j.zefq.2010.03.035>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags clinical guidelines, Publication Bias, reporting bias, scientific fraud, Getting to grips with Archie Cochrane 's agenda

Type Journal Article
Author Archie Cochrane
Volume 305
Issue October
Pages 3–5
Date 1992
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

High-intensity resistance training and postmenopausal bone loss: a meta-analysis.

Type Journal Article
Authors M Martyn-St James, S Carroll
Abstract Conflicting evidence exists regarding the optimum exercise for postmenopausal bone loss. A systematic review and meta-analysis was undertaken to evaluate the effects of randomised controlled trials (RCTs) of progressive, high-intensity resistance training on bone mineral density (BMD) amongst postmenopausal women.

Publication Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA

Volume 17

Issue 8

Pages 1225–40

Date January 2006

DOI 10.1007/s00198-006-0083-4

ISSN 0937-941X

URL <http://www.ncbi.nlm.nih.gov/pubmed/16823548>

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Tags Aged, Bone Density, Calcium, Calcium: administration & dosage, Exercise, Female, Femur, Femur: metabolism, Humans, Lumbar Vertebrae, Lumbar Vertebrae: metabolism, Middle Aged, Osteoporosis, Postmenopausal, Postmenopausal: prevention & control
Randomized Controlled Trials as Topic

How do systematic reviews deal with publication bias? An overview of current practice and comparison with a previous assessment

Type Journal Article

Authors S. Parekh-Bhurke, C. Kwok, C. Pang, L. Hooper, Y. Loke, JJ Ryder, A. Sutton, C. Hing, I. Harvey, F. Song

Volume 4

Issue 10

Date 2000

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Hydroxymethylglutaryl-coenzyme A Reductase Inhibitors (statins)

Type Journal Article

Authors Cathy Kelley, D Pharm, Mark Helfand, Chester Good, Michael Ganz

Issue December

Pages 1–33

Date 2002

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

ICCT-The Internal Consistency of Clinical Trials Über die inhaltliche Konsistenz randomisierter klinischer Studien

Type Thesis

Author Marc Nagel

Date 2010

of Pages 92

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Identifying and Correcting Publication Selection Bias in the Efficiency-Wage Literature : Heckman Meta-Regression

Type Manuscript

Authors T D Stanley, Hristos Doucouliagos

Date 2007

of Pages 32

Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Improving the quality of reports of meta-analyses of randomised controlled trials : the QUOROM statement

Type Journal Article
Authors David Moher, Deborah J Cook, Susan Eastwood, Ingram Olkin, Drummond Rennie, Donna F Stroup
Volume 354
Pages 1896–1900
Date 1999
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Improving the translational hit of experimental treatments in multiple sclerosis

Type Journal Article
Authors Hanna M Vesterinen, Emily S Sena, Charles Ffrench-Constant, Anna Williams, Siddharthan Chandran, Malcolm R Macleod
Abstract In other neurological diseases, the failure to translate pre-clinical findings to effective clinical treatments has been partially attributed to bias introduced by shortcomings in the design of animal experiments.
Publication Multiple sclerosis (Houndmills, Basingstoke, England)
Volume 16
Issue 9
Pages 1044–55
Date September 2010
DOI 10.1177/1352458510379612
ISSN 1477-0970
URL <http://www.ncbi.nlm.nih.gov/pubmed/20685763>
Date Added Dienstag, 7. August 2012 12:51:59
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Tags Animal, Animal: drug effects, Animals, Autoimmune, Behavior, Bias (Epidemiology), Chi-Square Distribution, Disease Models, Encephalomyelitis, Endpoint Determination, Experimental, Experimental: psych, Experimental: thera, Humans, Immunologic Factors, Immunologic Factors: pharmacology, Multiple Sclerosis, Multiple Sclerosis: drug therapy, Multiple Sclerosis: psychology, Reproducibility of Results, Research Design, Sample Size, Time Factors, Translational Medical Research

Individual patient data meta-analysis of survival data using Poisson regression models.

Type Journal Article
Authors Michael J Crowther, Richard D Riley, Jan A Staessen, Jiguang Wang, Francois Gueyffier, Paul C Lambert
Abstract ABSTRACT: BACKGROUND: An Individual Patient Data (IPD) meta-analysis is often considered the gold-standard for synthesising survival data from clinical trials. An IPD meta-analysis can be achieved by either a two-stage or a one-stage approach, depending on whether the trials are analysed separately or simultaneously. A range of one-stage hierarchical Cox models have been previously proposed, but these are known to be computationally intensive and are not currently available in all standard statistical software. We describe an alternative approach using Poisson based Generalised Linear Models (GLMs). METHODS: We illustrate, through application and simulation, the Poisson approach both classically and in a Bayesian framework, in two-stage and one-stage approaches. We outline the benefits of our one-stage approach through extension to modelling treatment-covariate interactions and non-proportional hazards. Ten trials of hypertension treatment, with all-cause death the outcome of interest, are used to apply and assess the approach. RESULTS: We show that the Poisson approach obtains almost identical estimates to the Cox model, is additionally computationally efficient and directly estimates the baseline hazard. Some downward bias is observed in classical estimates of the heterogeneity in the treatment effect, with improved performance from the Bayesian approach. CONCLUSION: Our approach provides a highly flexible and computationally efficient framework, available in all standard statistical software, to the investigation of not only heterogeneity, but the presence of non-proportional hazards and treatment effect modifiers.
Publication BMC medical research methodology
Volume 12
Issue 1
Pages 34

Date March 2012
DOI 10.1186/1471-2288-12-34
ISSN 1471-2288
URL <http://www.ncbi.nlm.nih.gov/pubmed/22443286>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Inflammatory Bowel Disease Diagnosed with US, MR, Scintigraphy, and CT: Meta-analysis of Prospective Studies

Type Journal Article
Authors Karin Horsthuis, Shandra Bipat, Roelof J Bennink, Jaap Stoker
Volume 247
Issue 1
Date 2008
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Initial Severity and Antidepressant Benefits: A Meta-Analysis of Data Submitted to the Food and Drug Administration.

Type Journal Article
Authors Irving Kirsch, Brett J Deacon, Tania B Huedo-Medina, Alan Scoboria, Thomas J Moore, Blair T Johnson
Abstract Meta-analyses of antidepressant medications have reported only modest benefits over placebo treatment, and when unpublished trial data are included, the benefit falls below accepted criteria for clinical significance. Yet, the efficacy of the antidepressants may also depend on the severity of initial depression scores. The purpose of this analysis is to establish the relation of baseline severity and antidepressant efficacy using a relevant dataset of published and unpublished clinical trials.
Publication PLoS medicine
Volume 5
Issue 2
Pages e45
Date February 2008
DOI 10.1371/journal.pmed.0050045
ISSN 1549-1676
URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=2253608&tool=pmcentrez&...>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Antidepressive Agents, Antidepressive Agents: therapeutic use, Clinical Trials as Topic, Clinical Trials as Topic: standards, Databases, Depressive Disorder, Depressive Disorder: drug therapy, Depressive Disorder: epidemiology, Depressive Disorder: psychology, Factual, Factual: standards, Humans, Severity of Illness Index, United States, United States Food and Drug Administration, United States Food and Drug Administration: standa United States: epidemiology

Introduction to Meta-Analysis

Type Journal Article
Authors Michael Borenstein, Larry V. Hedges, Julian P.T. Higgins, Hannah R. Rothstein
Volume 28
Issue 3
Pages 10
Date August 2009
DOI 10.1016/j.soncn.2012.05.002
ISSN 1878-3449
URL <http://www.ncbi.nlm.nih.gov/pubmed/22848789>
Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59

Just the History from The combining of information : Investigating and synthesizing what is possibly common in clinical observations or studies via likelihood .

Type Journal Article
Author O Keith
Pages 1–20
Date 2007
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Limitations of the randomized controlled trial in evaluating population-based health interventions.

Type Journal Article
Authors Robert William Sanson-Fisher, Billie Bonevski, Lawrence W Green, Cate D'Este
Abstract Population- and systems-based interventions need evaluation, but the randomized controlled trial (RCT) research design has significant limitations when applied to their complexity. After some years of being largely dismissed in the ranking of evidence in medicine, alternatives to the RCT have been debated recently in public health and related population and social service fields to identify the trade-offs in their use when randomization is impractical or unethical. This review summarizes recent debates and considers the pragmatic and economic issues associated with evaluating whole-population interventions while maintaining scientific validity and credibility.
Publication American journal of preventive medicine
Volume 33
Issue 2
Pages 155–61
Date August 2007
DOI 10.1016/j.amepre.2007.04.007
ISSN 0749-3797
URL <http://www.ncbi.nlm.nih.gov/pubmed/17673104>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Biomedical Research, Evidence-Based Medicine, Humans, Randomized Controlled Trials as Topic, Research Design

Magnetic resonance imaging studies in unipolar depression: Systematic review and meta-regression analyses

Type Journal Article
Authors D Arnone, A M Mcintosh, K P Ebmeier, M R Munafò, I M Anderson
Publication European Neuropsychopharmacology
Volume 22
Issue 1
Pages 1–16
Date 2012
DOI 10.1016/j.euroneuro.2011.05.003
ISSN 0924-977X
URL <http://dx.doi.org/10.1016/j.euroneuro.2011.05.003>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bipolar disorder, Depression, meta-analysis, MRI

Measurement, generalization , and publication : Sources of error in benefit transfers and their management ☆

Type Journal Article
Authors Randall S Rosenberger, Tom D Stanley

Date 2006
DOI 10.1016/j.econ.2006.03.018
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

MEMORANDUM Department of Health and Human Service Public Health Service Food and Drug Administration Center for Drug Evaluation and Research

Type Journal Article
Author Thomas P. Laughren
Date 2006
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Meta-analyses of molecular association studies: Methodologic lessons for genetic epidemiology

Type Journal Article
Authors John Attia, Ammarin Thakkinstian, Catherine D Este
Volume 56
Pages 297–303
Date 2003
DOI 10.1016/S0895-4356(03)00011-8
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags genetic models, hardy-weinberg equilibrium, meta-analysis, molecular association studies, multiple comparisons, systematic review

Meta-analyses of randomised controlled trials

Type Journal Article
Authors Peter M Rothwell, Gary Robertson
Volume 350
Pages 1181–1182
Date 1997
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Meta-analysis

Type Journal Article
Authors Peter M Rothwell, Gary Robertson, George Davey Smith, Matthias Egger
Volume 350
Pages 1997
Date 1997
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Meta-analysis: is moving the goal post the answer?

Type Journal Article
Authors Matthias Egger, George Davey Smith, Jonathan A C Sterne
Volume 351
Pages 1998
Date 1998
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Meta-analysis of genetic association studies

Type Journal Article
Author Jonathan Flint, Marcus R Munafo
Volume 20
Issue 9
Date 2004
DOI 10.1016/j.tig.2004.06.014
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Meta-analysis of Observational Studies in Epidemiology: A Proposal for Reporting

Type Journal Article
Authors Donna F Stroup, Jesse A Berlin, Sally C Morton, Ingram Olkin, G. David Williamson, Drummond Rennie, David Moher, Betsy J Becker, Theresa Ann Sipe, Stephan B. Thacker
Date 2000
DOI 10.1001/jama.283.15.2008
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Meta-analysis of the placebo response in antidepressant trials.

Type Journal Article
Authors Winfried Rief, Yvonne Nestoriuc, Sarah Weiss, Eva Welzel, Arthur J Barsky, Stefan G Hofmann
Abstract Improvements in placebo groups of antidepressant trials account for a major part of the expected drug effects. We aimed to determine overall effect sizes of placebo and drug effects in antidepressant trials, and to analyze whether the placebo effect in antidepressant trials also occurs for patient self-perception, general psychopathology, and quality of life.
Publication Journal of affective disorders
Volume 118
Issue 1-3
Pages 1-8
Date November 2009
DOI 10.1016/j.jad.2009.01.029
ISSN 1573-2517
URL <http://www.ncbi.nlm.nih.gov/pubmed/19246102>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Antidepressive Agents, Antidepressive Agents: adverse effects, Antidepressive Agents: therapeutic use, Depressive Disorder, Depressive Disorder: drug therapy, Humans, Placebo Effect, Randomized Controlled Trials as Topic

Methodologic and Ethical Failures in Epidemiologic Research, as Illustrated by Research Relating to Tobacco Harm Reduction

Type Journal Article
Authors H Karyn, Courtney Heffernan, Carl V. Phillips
Author Brad Rodu
Date 2008
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Model Uncertainty in Sociological Research: An Application to Religion and Economic Growth

Type Journal Article
Author Cristobal Young
Volume 74

Pages 380–397
Date 2010
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

More than numbers: the power of graphs in meta-analysis.

Type Journal Article
Authors Leon Bax, Noriaki Ikeda, Naohito Fukui, Yukari Yaju, Harukazu Tsuruta, Karel G M Moons
Abstract In meta-analysis, the assessment of graphs is widely used in an attempt to identify or rule out heterogeneity and publication bias. A variety of graphs are available for this purpose. To date, however, there has been no comparative evaluation of the performance of these graphs. With the objective of assessing the reproducibility and validity of graph ratings, the authors simulated 100 meta-analyses from 4 scenarios that covered situations with and without heterogeneity and publication bias. From each meta-analysis, the authors produced 11 types of graphs (box plot, weighted box plot, standardized residual histogram, normal quantile plot, forest plot, 3 kinds of funnel plots, trim-and-fill plot, Galbraith plot, and L'Abbé plot), and 3 reviewers assessed the resulting 1,100 plots. The intraclass correlation coefficients (ICCs) for reproducibility of the graph ratings ranged from poor (ICC = 0.34) to high (ICC = 0.91). Ratings of the forest plot and the standardized residual histogram were best associated with parameter heterogeneity. Association between graph ratings and publication bias (censorship of studies) was poor. Meta-analysts should be selective in the graphs they choose for the exploration of their data.
Publication American journal of epidemiology
Volume 169
Issue 2
Pages 249–55
Date January 2008
DOI 10.1093/aje/kwn340
ISSN 1476-6256
URL <http://www.ncbi.nlm.nih.gov/pubmed/19064649>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Communication, Computer Graphics, Confidence Intervals, Data Interpretation, Effect Modifier, Epidemiologic, Epidemiologic Methods, Humans, Journalism, Medical, Meta-Analysis as Topic, Publication Bias, Software Statistical

Negative results are disappearing from most disciplines and countries

Type Journal Article
Author Daniele Fanelli
Publication Scientometrics
Volume 90
Issue 3
Pages 891–904
Date September 2011
DOI 10.1007/s11192-011-0494-7
ISSN 0138-9130
URL <http://www.springerlink.com/index/10.1007/s11192-011-0494-7>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags bias á misconduct á, competition, publish or perish á, research evaluation á publication

No evidence of bias in the process of publication of diagnostic accuracy studies in stroke submitted as abstracts

Type Journal Article
Authors Miriam Brazzelli, Stephanie C Lewis, Jonathan J Deeks, Peter A G Sandercock
Publication Journal of Clinical Epidemiology
Volume 62
Issue 4

Pages 425–430
Date 2009
DOI 10.1016/j.jclinepi.2008.06.018
ISSN 0895-4356
URL <http://dx.doi.org/10.1016/j.jclinepi.2008.06.018>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Diagnosis, diagnostic accuracy studies, Publication Bias, Regression Analysis, Stroke, Survival Analysis

OARSI recommendations for the management of hip and knee osteoarthritis Part III : changes in evidence following systematic cumulative update of research published through January 2009

Type Journal Article
Authors W Zhang, G Nuki, R W Moskowitz, S Abramson, R D Altman, N K Arden, S. Bierma-Zeinstra, K D Brandt, P Croft, M Doherty, M Dougados, M Hochberg, D J Hunter, K Kwok, L S Lohmander, P Tugwell
Publication YJOCA
Volume 18
Issue 4
Pages 476–499
Date 2010
DOI 10.1016/j.joca.2010.01.013
ISSN 1063-4584
URL <http://dx.doi.org/10.1016/j.joca.2010.01.013>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Outcome reporting in industry-Sponsored Trials of Gabapentin for Off-Label Use.

Type Journal Article
Authors S Swaroop Vedula, Lisa Bero, Roberta W Scherer, Kay Dickersin
Abstract There is good evidence of selective outcome reporting in published reports of randomized trials.
Publication The New England journal of medicine
Volume 361
Issue 20
Pages 1963–71
Date November 2009
DOI 10.1056/NEJMsa0906126
ISSN 1533-4406
URL <http://www.ncbi.nlm.nih.gov/pubmed/19907043>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Amines, Amines: therapeutic use, Bipolar disorder, Bipolar Disorder: drug therapy, Clinical Protocols, Cyclohexanecarboxylic Acids, Cyclohexanecarboxylic Acids: therapeutic use, gamma-Aminobutyric Acid, gamma-Aminobutyric Acid: therapeutic use, Humans, Migraine Disorders, Migraine Disorders: drug therapy, Off-Label Use, Off-Label Use: statistics & numerical data, Outcome Assessment (Health Care), Outcome Assessment (Health Care): methods, Outcome Assessment (Health Care): standards, Pain, Pain: drug therapy, Publication Bias, Randomized Controlled Trials as Topic, Randomized Controlled Trials as Topic: standards, Treatment Outcome

Peer Review in Epidemiology Cannot Accomplish Its Ostensible Goals Due to Incomplete Reporting and Unverifiable Analyses

Type Journal Article
Authors Karyn Heavner, Carl V. Philips
Date 2009
Date Added Dienstag, 7. August 2012 12:51:59

Modified Dienstag, 7. August 2012 12:51:59
Tags data, data analysis, epidemiological methods, Peer Review, Publication Bias

Predictors of efficacy in depression prevention programmes: Meta-analysis

Type Journal Article
Authors E. Jane-Llopis, Clemens Hosman, Rachel Jenkins, Peter Anderson
Publication The British Journal of Psychiatry
Volume 183
Issue 5
Pages 384–397
Date November 2003
DOI 10.1192/bjp.183.5.384
ISSN 0007-1250
URL <http://bjp.rcpsych.org/cgi/doi/10.1192/bjp.183.5.384>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Problems of reporting genetic associations with complex outcomes

Type Journal Article
Authors Helen M Colhoun, Paul M Mckeigue, George Davey Smith
Volume 361
Pages 865–872
Date 2003
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Promises and pitfalls of meta-analysis in vaccine research

Type Journal Article
Author Robert M Jacobson
Volume 17
Pages 1628–1634
Date 1999
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags meta-analysis, methodology, vaccine

PUB_BIAS: A SAS Macro for Detecting Publication Bias in Meta-Analysis

Type Journal Article
Authors Gianna Rendina-Gobioff, Jeffrey D Kromrey
Volume 2052
Pages 1–17
Date 2006
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Publication and non-publication of clinical trials: longitudinal study of applications submitted to a research ethics committee.

Type Journal Article
Authors Erik von Elm, Alexandra Röllin, Anette Blümle, Karin Huwiler, Mark Witschi, Matthias Egger
Abstract Not all clinical trials are published, which may distort the evidence that is available in the literature. We studied the publication rate of a cohort of clinical trials and identified factors associated with publication and nonpublication of results.

Publication Swiss medical weekly
Volume 138
Issue 13-14
Pages 197–203
Date April 2008
DOI 2008/13/smw-12027
ISSN 1424-7860
URL <http://www.ncbi.nlm.nih.gov/pubmed/18389392>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bias (Epidemiology), Clinical Protocols, Data Collection, Databases as Topic, Drug Design, Ethics Committees, Evidence-Based Medicine, Humans, Journalism, Longitudinal Studies, Medical, Medical: standards, Periodicals as Topic, Questionnaires, Randomized Controlled Trials as Topic, Research, Research Design, Research Support as Topic

Publication and related bias in meta-analysis : Power of statistical tests and prevalence in the literature

Type Journal Article
Authors Jonathan A C Sterne, David Gavaghan, Matthias Egger
Volume 53
Pages 1119–1129
Date 2000
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags correlation, funnel plot, meta-analysis, Publication Bias, regression, simulation study

Publication bias affected the estimate of postoperative nausea in an acupoint stimulation systematic review

Type Journal Article
Authors Anna Lee, John B Copas, Masayuki Henmi, Tony Gin, Raymond C K Chung
Volume 59
Issue 3
Pages 980–983
Date 2006
DOI 10.1016/j.jclinepi.2006.02.003
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags acupuncture, methodology, Publication Bias, systematic review

Publication bias and journals as policemen

Type Journal Article
Author Anthony N DeMaria
Publication Journal of the American College of Cardiology
Volume 44
Issue 8
Pages 1707–8
Date October 2004
DOI 10.1016/j.jacc.2004.09.018
ISSN 0735-1097
URL <http://www.ncbi.nlm.nih.gov/pubmed/15489107>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Tags Clinical Trials as Topic, Clinical Trials as Topic: statistics & numerical d, Editorial Policies, Humans, Periodicals as Topic, Police, Publication Bias, Reproducibility of Results
United States

Publication bias for CAM trials in the highest impact factor medicine journals is partly due to geographical bias

Type Journal Article
Authors Amit Sood, Kayla Knudsen, Richa Sood, Dietlind L Wahner-Roedler, Sunni A Barnes, Aditya Bardia, Brent A Bauer
Volume 60
Date 2007
DOI 10.1016/j.jclinepi.2007.01.009
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags alternative medicine, clinical trials, complementary therapies, geographic factors, Publication Bias, Treatment Outcome

Publication bias in abstracts presented to the annual meeting of the American Academy of Orthopaedic Surgeons.

Type Journal Article
Authors I A Harris, M Mourad, A Kadir, M J Solomon, J M Young
Abstract To examine possible causes of publication bias in the orthopaedic literature so as to avoid inappropriate clinical decisions based on reviews of the literature.
Publication Journal of orthopaedic surgery (Hong Kong)
Volume 15
Issue 1
Pages 62–6
Date April 2007
ISSN 1022-5536
URL <http://www.ncbi.nlm.nih.gov/pubmed/17429120>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Abstracting and Indexing as Topic, Humans, Logistic Models, Medical, Orthopedics, Outcome Assessment (Health Care), Publication Bias, Publication Bias: statistics & numerical data, Societies
United States

Publication bias in meta-analysis: its causes and consequences.

Type Journal Article
Authors Alison Thornton, Peter Lee
Abstract Publication bias is a widespread problem that may seriously distort attempts to estimate the effect under investigation. The literature is reviewed to determine features of the design and execution of both single studies and meta-analyses leading to publication bias, and the role the author, journal editor, and reviewer play in selecting studies for publication. Methods of detecting, correcting for, and preventing publication bias are reviewed. The design of the meta-analysis itself, and the studies included in it, are shown to be important among a number of sources of publication bias. Various factors influence an author's decision to submit results for publication. Journal editors and reviewers are crucial in deciding which studies to publish. Various methods proposed for detecting and correcting for publication bias, though useful, all have limitations. However, prevention of publication bias by registering every trial undertaken or publishing all studies is an ideal that is hard to achieve.
Publication Journal of clinical epidemiology
Volume 53
Issue 2
Pages 207–16
Date February 2000
ISSN 0895-4356
URL <http://www.ncbi.nlm.nih.gov/pubmed/10729693>

Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Epidemiologic Research Design, Humans, Meta-Analysis as Topic, Publication Bias

Publication bias in psychological science: Prevalence, methods for identifying and controlling, and implications for the use of meta-analyses

Type Journal Article
Authors Christopher J Ferguson, Michael T Brannick
Abstract The issue of publication bias in psychological science is one that has remained difficult to address despite decades of discussion and debate. The current article examines a sample of 91 recent meta-analyses published in American Psychological Association and Association for Psychological Science journals and the methods used in these analyses to identify and control for publication bias. Of the 91 studies analyzed, 64 (70%) made some effort to analyze publication bias, and 26 (41%) reported finding evidence of bias. Approaches to controlling publication bias were heterogeneous among studies. Of these studies, 57 (63%) attempted to find unpublished studies to control for publication bias. Nonetheless, those studies that included unpublished studies were just as likely to find evidence for publication bias as those that did not. Furthermore, authors of meta-analyses themselves were overrepresented in unpublished studies acquired, as compared with published studies, suggesting that searches for unpublished studies may increase rather than decrease some sources of bias. A subset of 48 meta-analyses for which study sample sizes and effect sizes were available was further analyzed with a conservative and newly developed tandem procedure of assessing publication bias. Results indicated that publication bias was worrisome in about 25% of meta-analyses. Meta-analyses that included unpublished studies were more likely to show bias than those that did not, likely due to selection bias in unpublished literature searches. Sources of publication bias and implications for the use of meta-analysis are discussed. (PsycINFO Database Record (c) 2012 APA, all rights reserved).
Publication Psychological methods
Volume 17
Issue 1
Pages 120–8
Date March 2012
DOI 10.1037/a0024445
ISSN 1939-1463
URL <http://www.ncbi.nlm.nih.gov/pubmed/21787082>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags clinical trials for the, efficacy of anti-depressants has, highlighted, meta-analysis, Publication Bias, publication of positive outcome, recent attention to selective, statistics, sup, supplemental materials

Publication Bias: The 'File-Drawer' Problem in Scientific Inference

Type Journal Article
Author Jeffrey D. Scargle
Volume 14
Issue 1
Pages 91–106
Date 2000
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags file drawer effect, meta-analysis, Publication Bias

Publication Selection in Minimum-Wage Research? A Meta-Regression Analysis

Type Journal Article
Authors Hristos Doucouliagos, T D Stanley
Date 2008
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Puzzlingly High Correlations in fMRI Studies of Emotion, Personality, and Social Cognition

Type Journal Article
Authors Edward Vul, Christine Harris, Piotr Winkielman, Harold Pashler
Volume 4
Issue 3
Pages 274–290
Date 2009
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Quality of life and related dimensions in cancer patients treated with mistletoe extract (iscador): a meta-analysis.

Type Journal Article
Authors Arndt Büssing, Christa Raak, Thomas Ostermann
Abstract Objectives. The aim of this meta-analysis was to determine the effectiveness of the fermented plant extract Iscador, produced from the white-berry European mistletoe, in the treatment of patients with cancer with respect to quality-of-life- (QoL-) associated measures. Methods. We searched databases such as PubMed/Medline, Excerpta Medica Database (EMBASE), CAMbase, and other for controlled clinical studies on parameters associated with QoL. Outcome data were extracted and converted into standardized mean differences and their standard errors. Results. Thirteen prospective and controlled studies which met the inclusion/exclusion criteria reported positive effects in favor of the Iscador application. A random-effect meta-analysis estimated the overall treatment effect at standardized mean difference = 0.56 (CI: 0.41 to 0.71, $P < .0001$). However, the methodological quality of the studies was poor. Conclusions. The analyzed studies give some evidence that Iscador treatment might have beneficial short-time effects on QoL-associated dimensions and psychosomatic self-regulation.
Publication Evidence-based complementary and alternative medicine : eCAM
Volume 2012
Pages 219402
Date January 2012
DOI 10.1155/2012/219402
ISSN 1741-4288
URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3124023&tool=pmcentrez&...>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Randomized trials, statistics, and clinical inference.

Type Journal Article
Authors Gregg W Stone, Stuart J Pocock
Abstract The completion and proper assessment of prospective, randomized controlled trials is essential for best medical practice. However, even though randomized trials are generally considered the pinnacle of evidence-based medicine, they are not infrequently poorly designed, implemented with inadequate quality control, and/or are subject to inappropriate interpretation or generalization, resulting in suboptimal clinical care and/or future investigative directions. The present report describes the most common and egregious misrepresentations from randomized trials, many of which may be attributed to the fallacies that arise from underpowered studies, resulting in overly optimistic or unwarranted conclusions. Caution is necessary when assessing composite outcomes, secondary end points, subgroup analyses, and the results of meta-analysis and meta-regression. Sponsors and investigators must accept responsibility for optimizing the design and execution of clinical trials, and practitioners, guidelines committees, editors, and regulators must critically interpret the data and literature arising from such studies. It is hoped that the principles embodied in the present commentary will spur improved design of future randomized trials and thoughtful critical appraisal by health care providers.
Publication Journal of the American College of Cardiology
Volume 55
Issue 5
Pages 428–31
Date February 2010
DOI 10.1016/j.jacc.2009.06.066
ISSN 1558-3597

URL <http://www.ncbi.nlm.nih.gov/pubmed/20117455>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Cardiology, Humans, Randomized Controlled Trials as Topic, Statistics as Topic

Rationality and Society

Type Journal Article
Author Bryan Caplan
Date 2006
DOI 10.1177/1043463106066377
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Recursive Cumulative Meta-analysis: A Diagnostic for the Evolution of Total Randomized Evidence from Group and Individual Patient Data

Type Journal Article
Authors J P Ioannidis, D G Contopoulos-Ioannidis, J Lau
Abstract Meta-analyses of randomized evidence may include published, unpublished, and updated data in an ongoing estimation process that continuously accommodates more data. Synthesis may be performed either with group data or with meta-analysis of individual patient data (MIPD). Although MIPD with updated data is considered the gold standard of evidence, there is a need for a careful study of the impact different sources of data have on a meta-analysis and of the change in the treatment effect estimates over sequential information steps. Unpublished data and late-appearing data may be different from early-appearing data. Updated information after the end of the main study follow-up may be affected by cross-overs, missing information, and unblinding. The estimated treatment effect may thus depend on the completeness and updating of the available evidence. To address these issues, we present recursive cumulative meta-analysis (RCM) as an extension of cumulative metaanalysis. Recursive cumulative meta-analysis is based on the principle of recalculating the results of a cumulative meta-analysis with each new or updated piece of information and focuses on the evolution of the treatment effect as a more complete and updated picture of the evidence becomes available. An examination of the perturbations of the cumulative treatment effect over sequential information steps may signal the presence of bias or heterogeneity in a meta-analysis. Recursive cumulative meta-analysis may suggest whether there is a true underlying treatment effect to which the meta-analysis is converging and how treatment effects are sequentially altered by new or modified evidence. The method is illustrated with an example from the conduct of an MIPD on acyclovir in human immunodeficiency virus infection. The relative strengths and limitations of both metaanalysis of group data and MIPD are discussed through the RCM perspective.
Publication Journal of clinical epidemiology
Volume 52
Issue 4
Pages 281–91
Date April 1999
ISSN 0895-4356
URL <http://www.ncbi.nlm.nih.gov/pubmed/10235168>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Acyclovir, Acyclovir: therapeutic use, Antiviral Agents, Antiviral Agents: therapeutic use, HIV Infections, HIV Infections: drug therapy, Humans, Meta-Analysis as Topic, Methods, Publication Bias, Randomized Controlled Trials as Topic, Research Design

Reducing publication bias of prospective clinical trials through trial registration.

Type Journal Article
Authors Lisa N Abaid, David a Grimes, Kenneth F Schulz
Abstract Publication bias is the selective publishing of favorable or statistically significant results. This practice, over time, distorts the medical literature by depicting inordinately optimistic outcomes for treatments and interventions. Sources of publication bias include preferential publishing by journals and preferential submission by researchers. Mandatory trial registration, as instituted by the International Committee of Medical Journal Editors (ICMJE), should reduce publication bias by improving the ability to identify all trials pertaining to a specific intervention. Contraception endorses the views of the ICMJE and will now require registration of all prospective trials.

Publication	Contraception
Volume	76
Issue	5
Pages	339–41
Date	November 2007
DOI	10.1016/j.contraception.2007.06.013
ISSN	0010-7824
URL	http://www.ncbi.nlm.nih.gov/pubmed/17963856
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59
Tags	Clinical Trials as Topic, Editorial Policies, Ethics, Guideline Adherence, Prospective Studies, Publication Bias, Research

Relationships fade with time: a meta-analysis of temporal trends in publication in ecology and evolution.

Type	Journal Article
Authors	Michael D Jennions, Anders P Møller
Abstract	Both significant positive and negative relationships between the magnitude of research findings (their 'effect size') and their year of publication have been reported in a few areas of biology. These trends have been attributed to Kuhnian paradigm shifts, scientific fads and bias in the choice of study systems. Here we test whether or not these isolated cases reflect a more general trend. We examined the relationship using effect sizes extracted from 44 peer-reviewed meta-analyses covering a wide range of topics in ecological and evolutionary biology. On average, there was a small but significant decline in effect size with year of publication. For the original empirical studies there was also a significant decrease in effect size as sample size increased. However, the effect of year of publication remained even after we controlled for sampling effort. Although these results have several possible explanations, it is suggested that a publication bias against non-significant or weaker findings offers the most parsimonious explanation. As in the medical sciences, non-significant results may take longer to publish and studies with both small sample sizes and non-significant results may be less likely to be published.
Publication	Proceedings. Biological sciences / The Royal Society
Volume	269
Issue	1486
Pages	43–8
Date	January 2001
DOI	10.1098/rspb.2001.1832
ISSN	0962-8452
URL	http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1690867&tool=pmcentrez&...
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59
Tags	Biological, Biological Evolution, Ecology, Models, Periodicals as Topic, Periodicals as Topic: statistics & numerical data, Periodicals as Topic: trends, Publication Bias, Publication Bias: statistics & numerical data, Publication Bias: trends, Sample Size, Time Factors

Replication, replication, replication

Type	Journal Article
Authors	Stuart J Ritchie, Richard Wiseman, Christopher C French
Volume	25
Issue	5
Date	2012
DOI	10.1037/a001945
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59

REPORT OF THE CSM EXPERT WORKING GROUP ON THE SAFETY OF SELECTIVE SEROTONIN REUPTAKE INHIBITOR ANTIDEPRESSANTS

Type Journal Article
Author FRCP
Date 2004
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Research publication in pediatric surgery : a cross-sectional study of papers presented at the Canadian Association of Pediatric Surgeons and the American Pediatric Surgery Association

Type Journal Article
Authors Mohammed Zamakhshary, Wesam Abuznadah, Jordon Zacny, Michael Giacomantonio
Pages 1298–1301
Date 2006
DOI 10.1016/j.jpedsurg.2006.03.042
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Risk stratification for arrhythmic events: are the bangs worth the bucks?

Type Journal Article
Author M J Eisenberg
Publication Journal of the American College of Cardiology
Volume 38
Issue 7
Pages 1912–5
Date December 2001
ISSN 0735-1097
URL <http://www.ncbi.nlm.nih.gov/pubmed/11738293>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Cardiac, Cardiac: etiology, Cardiac: prevention & control, Death, Defibrillators, Humans, Implantable, Myocardial Infarction, Myocardial Infarction: complications, Myocardial Infarction: therapy, Predictive Value of Tests, Risk Assessment, Sudden, Tachycardia, Ventricular, Ventricular: etiology, Ventricular: therapy

Rose Effect and the Euro : Is the Magic

Type Journal Article
Author Tomas Havranek
Issue 18479
Date 2009
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Rose Effect and the Euro : Is the Magic Gone ?*

Type Journal Article
Author Tomáš Havránek
Pages 1–22
Date 2009
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags currency union, euro, meta-analysis, pub-, rose effect, trade

Selecting the language of the publications included in a meta-analysis: is there a Tower of Babel bias?

Type	Journal Article
Authors	G Grégoire, F Derderian, J Le Lorier
Abstract	Although they usually claim a very thorough search to retrieve every pertinent work, most meta-analyses published in English restrict their search to papers which were also published in English. We reviewed all the meta-analyses printed from 1 January 1991 to 1 April 1993 in 8 medical journals published in English and selected those who stated linguistic restrictions for inclusion in the analysis. The computerized search methods used in these meta-analyses were then duplicated looking specifically for publications written in the excluded languages. Each meta-analysis was then redone with identical statistical tests to determine if its conclusions would have been different if the paper(s) absent only for linguistic reasons had been included. A total of 36 meta-analyses of which 28 had language restrictions were identified. The computer searches yielded 19 papers scientifically acceptable but excluded for linguistic reasons. Eleven of these articles were retained as having the potential to modify their corresponding 7 meta-analyses. One meta-analysis which concluded that selective decontamination of the digestive tract in intensive care units did not produce a significant change in mortality between treatment and control patients (OR 0.70; 95% CI 0.45-1.09) would have arrived at a different conclusion (OR 0.67; 95% CI 0.47-0.95) if a paper written in German in a Swiss journal had been included in the analysis. Our study demonstrates that, in at least one out of 36 consecutive meta-analyses the exclusion of papers for linguistic reasons produced results different from those which would have been obtained if this exclusion criteria had not been used.
Publication	Journal of clinical epidemiology
Volume	48
Issue	1
Pages	159–63
Date	January 1995
ISSN	0895-4356
URL	http://www.ncbi.nlm.nih.gov/pubmed/7853041
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59
Tags	Clinical Trials as Topic, Language, MEDLINE, Meta-Analysis as Topic, Periodicals as Topic, Periodicals as Topic: statistics & numerical data, Publication Bias, Publication Bias: statistics & numerical data

Selective serotonin reuptake inhibitors versus tricyclic antidepressants: a meta-analysis of efficacy and tolerability

Type	Journal Article
Author	Ian M. Anderson
Volume	58
Pages	19–36
Date	2000
Date Added	Dienstag, 7. August 2012 12:51:59
Modified	Dienstag, 7. August 2012 12:51:59
Tags	Depression, meta-analysis, systematic review

Sensitivity analyses allowed more appropriate and reliable meta-analysis conclusions for multiple outcomes when missing data was present.

Type	Journal Article
Authors	Richard D Riley, Alex J Sutton, Keith R Abrams, Paul C Lambert
Abstract	A major problem for meta-analysis of multiple outcomes is the unavailability of some estimates from published and unpublished studies. Dissemination bias, in how and what outcomes are reported or published, may be causing this incompleteness. This article illustrates these problems and presents possible sensitivity analyses to allow the most reliable conclusions.
Publication	Journal of clinical epidemiology
Volume	57
Issue	9
Pages	911–24
Date	September 2004
DOI	10.1016/j.jclinepi.2004.01.018

ISSN 0895-4356
URL <http://www.ncbi.nlm.nih.gov/pubmed/15504634>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Biological, Biological: analysis, Disease-Free Survival, Humans, Meta-Analysis as Topic, Neoplasm Proteins, Neoplasm Proteins: analysis, Neuroblastoma, Neuroblastoma: diagnosis, Prognosis, Proto-Oncogene Proteins c-myc, Proto-Oncogene Proteins c-myc: analysis, Publication Bias, Review Literature as Topic, Sensitivity and Specificity, Survival Analysis
Tumor Markers

Serum Brain-Derived Neurotrophic Factor, Depression, and Antidepressant Medications: Meta-Analyses and Implications

Type Journal Article
Authors Srijan Sen, Ronald Duman, Gerard Sanacora
Pages 527–532
Date 2008
DOI 10.1016/j.biopsych.2008.05.005
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags an important precipitant of, Depression, depressive, increasing evidence has implicated, mood, neurotrophic factors in the, neurotrophic stress, pathophysiology of depression, stress, over the past decade

Statistical and Theoretical Considerations in Meta-Analysis

Type Journal Article
Author Ingram Olkin
Volume 48
Issue 1
Pages 133–146
Date 1995
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Statistische Methoden zur Detektion und Adjustierung von Publikationsbias

Type Journal Article
Authors Guido Schwarzer, Gerta Rücker
Publication Zeitschrift für Evidenz, Fortbildung und Qualität im Gesundheitswesen
Volume 104
Issue 4
Pages 306–313
Date January 2010
DOI 10.1016/j.zefq.2010.03.016
ISSN 18659217
URL <http://linkinghub.elsevier.com/retrieve/pii/S1865921710000632>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags egger test, funnel plot, meta-analysis, Publication Bias, small-study effects, trim-and-fill method

Strengthening the credibility of clinical research

Type Journal Article
Author The-Lancet
Publication Lancet
Volume 375
Issue 9722

Pages 1225
Date April 2010
DOI 10.1016/S0140-6736(10)60523-5
ISSN 1474-547X
URL <http://www.ncbi.nlm.nih.gov/pubmed/20382309>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Drug Industry, Humans, Hypoglycemic Agents, Hypoglycemic Agents: adverse effects, Professional Misconduct, Publishing, Publishing: standards, Randomized Controlled Trials as Topic, Randomized Controlled Trials as Topic: standards, Thiazolidinediones, Thiazolidinediones: adverse effects
United States

Summing up evidence : one answer is not always enough

Type Journal Article
Authors Joseph Lau, John P A Ioannidis, Christopher H Schmid
Volume 351
Pages 123–127
Date 1998
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Supporting information file S1: Longer, more detailed version of article Observational research, randomised trials and two views of medical science

Type Journal Article
Author Jan P Vandenbrouke
Issue April 2007
Pages 1–28
Date 2008
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Supreme court of the united states

Type Journal Article
Author Brown-Governor-of-California
Date 2011
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Systematic review of publication bias in studies on publication bias

Type Journal Article
Authors Hans-Hermann Dubben, Hans-Peter Beck-Bornholdt
Abstract To identify ethnic differences in survival after stroke and examine the factors that influence survival.
Publication BMJ (Clinical research ed.)
Volume 331
Issue 7514
Pages 431
Date August 2005
DOI 10.1136/bmj.38510.458218.8F
ISSN 1756-1833
URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1188108&tool=pmcentrez&...>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Tags African Continental Ancestry Group, African Continental Ancestry Group: statistics, European Continental Ancestry Group, European Continental Ancestry Group: statistics &, Female, Follow-Up Studies, Humans, London, London: epidemiology, Male, Proportional Hazards Models, Registries, Risk Factors, Stroke, Stroke: ethnology, Stroke: mortality, Survival Analysis

Testing treatments Better Research for better Healthcare

Type Book
Authors Imogen Evans, Hazel Thornton, Iain Chalmers
Edition 2nd Editio
Date 2010
ISBN 9781905177356
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

The conclusions on the effectiveness of homeopathy highly depend on the set of analyzed trials.

Type Journal Article
Authors R Lüdtkke, A L B Rutten
Abstract Shang's recently published meta-analysis on homeopathic remedies (Lancet) based its main conclusion on a subset of eight larger trials out of 21 high quality trials (out of 110 included trials). We performed a sensitivity analysis on various other meaningful trial subsets of all high quality trials.
Publication Journal of clinical epidemiology
Volume 61
Issue 12
Pages 1197–204
Date December 2008
DOI 10.1016/j.jclinepi.2008.06.015
ISSN 1878-5921
URL <http://www.ncbi.nlm.nih.gov/pubmed/18834714>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Data Interpretation, Homeopathy, Humans, Randomized Controlled Trials as Topic, Research Design, Statistical, Treatment Outcome

The effects of electronic stability control (ESC) on crashes—an update (There was a problem displaying this page)

Type Journal Article
Author Alena Hø ye
Abstract The present study is an update of the meta-analysis by Erke (Erke, A., 2008. Effects of Electronic Stability Control (ESC) on accidents: a review of empirical evidence. Accident Analysis & Prevention, 40 (1), 167-173). Results from 12 studies of the effects of Electronic Stability Control (ESC) on the number of different types of crashes were summarized by means of meta-analysis. The results indicate that ESC prevents about 40% of all crashes involving loss of control. The greatest reductions were found for rollover crashes (-50%), followed by run-off-road (-40%) and single vehicle crashes (-25%). These results are however likely to be somewhat overestimated, especially for non-fatal crashes. Multiple vehicle crashes were found to be largely unchanged. Reductions were found for some types of multiple vehicle crashes. Rear-end collisions are unchanged or may increase. Fatal crashes involving pedestrians, bicycles or animals were found to increase as well. ESC was found to be more effective in preventing fatal crashes than non-fatal crashes. ESC is often found to be more effective in Sports Utility Vehicles (SUVs) than in passenger cars. This may be due to differences between drivers of SUVs and passenger cars. The results from meta-analysis indicate that drivers of ESC-equipped vehicles are likely to be safer drivers than other drivers. All the same, ESC may lead to behavioural adaptation in some cases, but it is not likely that behavioural adaptation offsets the positive safety effects. This may be due to a lack of knowledge about ESC.
Publication Accident; analysis and prevention
Volume 43
Issue 3
Pages 1148–59
Date May 2011

DOI 10.1016/j.aap.2010.12.025
ISSN 1879-2057
URL <http://www.ncbi.nlm.nih.gov/pubmed/21376913>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Accidents, Automation, Automobiles, Automobiles: classification, Causality, Humans, Protective Devices, Regression Analysis, Risk Factors, Survival Analysis, Traffic, Traffic: classification, Traffic: mortality, Traffic: prevention & control, Traffic: statistics & numerical data, Wounds and Injuries, Wounds and Injuries: epidemiology, Wounds and Injuries: mortality
Wounds and Injuries: prevention & control

The evidence behind our evidence-based decisions: cheques and balances

Type Journal Article
Author Hillel Halkin
Publication The Israel Medical Association journal : IMAJ
Volume 8
Issue 7
Pages 494–6
Date July 2006
ISSN 1565-1088
URL <http://www.ncbi.nlm.nih.gov/pubmed/16889166>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Drug Industry, Drug Industry: economics, Humans, Publication Bias, Randomized Controlled Trials as Topic, Randomized Controlled Trials as Topic: economics
Treatment Outcome

The Importance of Clinical Trial Data Sharing: Toward More Open Science Running Title: Clinical Trial Data Sharing

Type Journal Article
Authors Joseph S Ross, Richard Lehman
Author Cary P Gross
Date 2012
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

The performance of tests of publication bias and other sample size effects in systematic reviews of diagnostic test accuracy was assessed.

Type Journal Article
Authors Jonathan J Deeks, Petra Macaskill, Les Irwig
Abstract Publication bias and other sample size effects are issues for meta-analyses of test accuracy, as for randomized trials. We investigate limitations of standard funnel plots and tests when applied to meta-analyses of test accuracy and look for improved methods.
Publication Journal of clinical epidemiology
Volume 58
Issue 9
Pages 882–93
Date September 2005
DOI 10.1016/j.jclinepi.2005.01.016
ISSN 0895-4356
URL <http://www.ncbi.nlm.nih.gov/pubmed/16085191>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Tags Diagnostic Errors, Humans, Meta-Analysis as Topic, Odds Ratio, Phlebography, Prevalence, Publication Bias, ROC Curve, Sample Size, Statistics as Topic, Statistics as Topic: methods, Venous Thrombosis, Venous Thrombosis: radiography
Venous Thrombosis: ultrasonography

The possible effect on frequency of cycling if mandatory bicycle helmet legislation was repealed in Sydney, Australia: a cross sectional survey

Type Journal Article
Authors Chris Rissel, Li Ming Wen
Publication Health promotion journal of Australia : official journal of Australian Association of Health Promotion Professionals
Volume 23
Issue 1
Pages 6
Date April 2011
ISSN 1036-1073
URL <http://www.ncbi.nlm.nih.gov/pubmed/22730946>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bicycling, Bicycling: legislation & jurisprudence, Female, Head Protective Devices, Humans, Legislation as Topic, Male

The PRISMA statement for reporting systematic reviews and meta-analyses of studies that evaluate health care interventions: explanation and elaboration.

Type Book
Authors Alessandro Liberati, Douglas G Altman, Jennifer Tetzlaff, Cynthia Mulrow, Peter C Gøtzsche, John P A Ioannidis, Mike Clarke, P J Devereaux, Jos Kleijnen, David Moher
Abstract Systematic reviews and meta-analyses are essential to summarize evidence relating to efficacy and safety of health care interventions accurately and reliably. The clarity and transparency of these reports, however, is not optimal. Poor reporting of systematic reviews diminishes their value to clinicians, policy makers, and other users. Since the development of the QUOROM (Quality Of Reporting Of Meta-analysis) Statement—a reporting guideline published in 1999—there have been several conceptual, methodological, and practical advances regarding the conduct and reporting of systematic reviews and meta-analyses. Also, reviews of published systematic reviews have found that key information about these studies is often poorly reported. Realizing these issues, an international group that included experienced authors and methodologists developed PRISMA (Preferred Reporting Items for Systematic reviews and Meta-Analyses) as an evolution of the original QUOROM guideline for systematic reviews and meta-analyses of evaluations of health care interventions. The PRISMA Statement consists of a 27-item checklist and a four-phase flow diagram. The checklist includes items deemed essential for transparent reporting of a systematic review. In this Explanation and Elaboration document, we explain the meaning and rationale for each checklist item. For each item, we include an example of good reporting and, where possible, references to relevant empirical studies and methodological literature. The PRISMA Statement, this document, and the associated Web site (<http://www.prisma-statement.org/>) should be helpful resources to improve reporting of systematic reviews and meta-analyses.
Series Number 10
Volume 62
Date October 2009
of Pages e1–34
ISBN 2006062298
URL <http://www.ncbi.nlm.nih.gov/pubmed/19631507>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Evidence-Based Medicine, Evidence-Based Medicine: standards, Humans, Meta-Analysis as Topic, Publishing, Publishing: standards, Quality Control, Review Literature as Topic
Terminology as Topic

The publication process itself was the major cause of publication bias in genetic epidemiology

Type Journal Article
Authors Michael Calnan, George Davey, Jonathan A C Sterne

Volume 59
Pages 1312–1318
Date 2006
DOI 10.1016/j.jclinepi.2006.05.002
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags genetic epidemiology, genetic scientists, negative findings, professional beliefs, Publication Bias, qualitative methods

Thrombolytic therapy for pulmonary embolism

Type Journal Article
Authors Gabriel Thabut, Dominique Thabut, Robert P. Myers, Brigitte Bernard-Chobert, Rolana Marrash-Chahla, Herve Mal, Michel Fournier
Abstract Pulmonary embolism with choc carries a 25 to 50% mortality rate. Although no large randomized clinical trial is available, some insights of a meta-analysis suggest that thrombolysis decreases the mortality rate in these patients. In patients without clinical evidence of haemodynamic impairment, the mortality rate is much lower and does not justify more aggressive therapy other than anticoagulants. Recent data however suggest that among clinically stable patients, some may have a higher mortality risk. These so called sub-massive or intermediate-risk pulmonary embolism are defined either by right ventricular dysfunction assessed by echocardiography or by elevated troponin or brain natriuretic peptide. The role of thrombolytic treatment in these patients remains controversial. A large randomized controlled trial is underway to resume the debate.
Publication Journal des maladies vasculaires
Volume 40
Issue 9
Date December 2002
DOI 10.1016/S0398-0499(11)70006-3
ISSN 0398-0499
URL <http://www.ncbi.nlm.nih.gov/pubmed/22821109>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Anticoagulants, Anticoagulants: therapeutic use, Brain, Brain: blood, Fibrinolytic Agents, Fibrinolytic Agents: therapeutic use, Humans, Natriuretic Peptide, Pulmonary Embolism, Pulmonary Embolism: drug therapy, Pulmonary Embolism: mortality, Right, Right: complications, Right: ultrasonography, Risk Factors, Thrombolytic Therapy, Thrombolytic Therapy: contraindications, Troponin, Troponin: blood Ventricular Dysfunction

Time to full publication of studies of anti-cancer drugs for breast cancer , and the potential for publication bias : a systematic review

Type Journal Article
Authors Petra Harris, Andrea Takeda, Emma Loveman, Debbie Hartwell
Volume 44
Issue Mailpoint 728
Pages 80595614
Date 2008
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Too good to be true: publication bias in two prominent studies from experimental psychology.

Type Journal Article
Author Gregory Francis
Abstract Empirical replication has long been considered the final arbiter of phenomena in science, but replication is undermined when there is evidence for publication bias. Evidence for publication bias in a set of experiments can be found when the observed number of rejections of the null hypothesis exceeds the expected number of rejections. Application of this test reveals evidence of publication bias in two prominent investigations from experimental psychology that have purported to reveal evidence of extrasensory perception and to indicate severe limitations of the scientific method. The presence of publication bias suggests that those investigations cannot be taken as proper scientific studies of such phenomena, because critical data are not available to the

field. Publication bias could partly be avoided if experimental psychologists started using Bayesian data analysis techniques.

Publication Psychonomic bulletin & review
Volume 19
Issue 2
Pages 151–6
Date April 2012
DOI 10.3758/s13423-012-0227-9
ISSN 1531-5320
URL <http://www.ncbi.nlm.nih.gov/pubmed/22351589>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Bayes Theorem, Experimental, Experimental: methods, Experimental: standards, Humans, Memory, Parapsychology, Psychology, Publication Bias, Sample Size

Treatment of fibromyalgia syndrome with gabapentin and pregabalin – A meta-analysis of randomized controlled trials

Type Journal Article
Authors Winfried Häuser, Kathrin Bernardy, Nurcan Üçeyler, Claudia Sommer
Publication Pain
Volume 145
Issue 1-2
Pages 69–81
Date 2009
DOI 10.1016/j.pain.2009.05.014
ISSN 0304-3959
URL <http://dx.doi.org/10.1016/j.pain.2009.05.014>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags fibromyalgia, syndrome

Understanding systematic reviews: the meta-analysis graph (also called 'forest plot').

Type Journal Article
Authors L Moja, I Moschetti, a Liberati, G F Gensini, R Gusinu
Publication Internal and emergency medicine
Volume 2
Issue 2
Pages 140–2
Date June 2007
DOI 10.1007/s11739-007-0036-8
ISSN 1828-0447
URL <http://www.ncbi.nlm.nih.gov/pubmed/17634820>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Uniform requirements for manuscripts submitted to biomedical journals: Writing and editing for biomedical publication.

Type Journal Article
Publication Journal of pharmacology & pharmacotherapeutics
Volume 1
Issue 1

Pages 42–58
Date January 2010
ISSN 0976-5018
URL <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=3142758&tool=pmcentrez&...>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59

Unpublished data can be of value in systematic reviews of adverse effects: methodological overview.

Type Journal Article
Authors Su Golder, Yoon K Loke, Martin Bland
Abstract To assess the impact of including unpublished data on adverse effects in systematic reviews.
Publication Journal of clinical epidemiology
Volume 63
Issue 10
Pages 1071–81
Date October 2010
DOI 10.1016/j.jclinepi.2010.02.009
ISSN 1878-5921
URL <http://www.ncbi.nlm.nih.gov/pubmed/20457510>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags Clinical Trials as Topic, Drug Industry, Drug Industry: statistics & numerical data, Drug Toxicity, Drug Toxicity: epidemiology, Humans, Meta-Analysis as Topic, Publication Bias, Publication Bias: statistics & numerical data, Risk Assessment

Uptake of methods to deal with publication bias in systematic reviews has increased over time , but there is still much scope for improvement

Type Journal Article
Authors Sheetal Parekh-bhurke, Chun S Kwok, Chun Pang, Lee Hooper, Yoon K Loke, Jon J Ryder, Alex J Sutton, Caroline B Hing, Ian Harvey, Fujian Song
Publication Journal of Clinical Epidemiology
Volume 64
Issue 4
Pages 349–357
Date 2011
DOI 10.1016/j.jclinepi.2010.04.022
ISSN 0895-4356
URL <http://dx.doi.org/10.1016/j.jclinepi.2010.04.022>
Date Added Dienstag, 7. August 2012 12:51:59
Modified Dienstag, 7. August 2012 12:51:59
Tags funnel plot, meta-analysis, Publication Bias, reporting bias, risk of bias, systematic reviews

Voodoo and circularity errors

Type Journal Article
Authors Edward Vul, Hal Pashler
Publication NeuroImage
Pages 1–4
Date 2012
DOI 10.1016/j.neuroimage.2012.01.027
ISSN 1053-8119

URL <http://dx.doi.org/10.1016/j.neuroimage.2012.01.027>
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Tags data analysis, fMRI

What Vasopressors Should Be Used to Treat Shock?

Type Journal Article
Author Alan E. Jones
Publication Annals of Emergency Medicine
Volume 49
Issue 3
Pages 367–368
Date March 2007
DOI 10.1016/j.annemergmed.2006.10.014
ISSN 01960644
URL <http://linkinghub.elsevier.com/retrieve/pii/S0196064406024140>
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Which Foreigners Are Worth Wooing ? A Meta-Analysis of Vertical Spillovers from FDI

Type Journal Article
Authors Tomáš Havránek, Zuzana Irsová
Pages 1–36
Date 2010
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Why Most Discovered True Associations Are Inflated

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Author John P A Ioannidis
Pages 640–648
Date 2008
DOI 10.1097/EDE.0b013e31818131e7
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