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# Impact of searching clinical trial registries in systematic reviews of pharmaceutical treatments

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# .Impact of searching clinical trial registries in systematic reviews of pharmaceutical treatments.

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**Objective** To evaluate the impact of searching clinical trial registries on including the results of additional randomized controlled trials (RCTs) in systematic reviews (ie, eligible completed or terminated RCT not originally included in the systematic review).

**Design** 1) We identified systematic reviews of RCTs assessing pharmaceutical treatments published between June 2014 and January 2015. 2) For all systematic reviews that did not report a trial registry search but reported the information to perform it, we searched the World Health Organization International Trials Registry Platform (WHO ICTRP Search Portal) for completed or terminated RCTs not originally included in the systematic review. We then 3) searched the results for all completed or terminated RCTs identified and 4) performed meta-analyses when additional data were retrieved.

#### Data source MEDLINE and WHO ICTRP Search Portal

**Data extraction** For each systematic review, two researchers independently extracted the outcomes analyzed, the number of patients included and the treatment effect estimated. For each RCT identified, two researchers independently determined whether the results were available (ie, posted, published or available on the sponsor website) and extracted the data.

**Results** Among 223 selected systematic reviews, 116 (52%) did not report a search of trial registries; 21 of these did not report the information to perform the search (key words, search date). We performed the search for 95 systematic reviews; for 54/95 (57%), we found no additional RCTs and for 41/95 (43%) we identified 122 additional RCTs. The search allowed for increasing the number of patients by more than 10% in 19 systematic reviews, 20% in 10, 30% in seven, and 50% in four. Moreover, 63 RCTs had results available; the results for 45 could be included in a meta-analysis. We reanalyzed 14 systematic reviews including 45 RCTs. The weight of the additional RCTs varied from 0% to 58% and increased by 10% in five of 14 systematic reviews, 20% in three, and 50% in one. The change in summary

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### **INTRODUCTION**

Systematic reviews are considered to provide the highest level of evidence[1,2]. They are widely used by clinical practice guideline developers, granting health agencies and journal editors [3–6]. A major challenge of systematic reviews is to identify all relevant randomized controlled trials (RCTs), whatever their publication status[7–14]. Indeed, results for half of RCTs are never published [15] and the publication status is affected by the nature and direction of results, which may bias the results of the systematic review[16].

Initiatives aimed at reducing publication bias include the trial registration policy initiated by the International Committee of Medical Journal Editors (ICMJE) in 2005[17]. In 2007, the US Food and Drug Administration Amendments Act (FDAAA) required the posting of clinical trial results at ClinicalTrials.gov no later than one year after the date of final collection of data for the pre-specified primary outcome, for all phase II to IV trials of drugs, biologic treatments and devices having at least one site in the United States[18,19]. The research community has embraced this policy, and there was a marked increase in trial registration around the time of implementation of the ICMJE policy[20]. In April 2016, about 90,000 completed experimental studies were registered at ClinicalTrials.gov (the largest registry), and 16,500 have results posted.

When performing systematic reviews, the search of trial registries is now considered an essential tool [3,21–23]. Nevertheless, to our knowledge, the impact of searching trial registries has never been evaluated.

The objectives of this study were to 1) describe whether and how clinical trial registries were searched in published systematic reviews of pharmaceutical treatments and 2) evaluate the impact of searching trial registries on the identification of additional RCTs (ie, eligible completed or terminated RCTs not included in the systematic review). For this purpose, we identified a sample of systematic reviews of RCTs assessing pharmaceutical treatments

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#### METHODS

#### **Identification of systematic reviews**

We systematically searched MEDLINE via PubMed for all systematic reviews of RCTs assessing pharmaceutical treatments that were published in English between June 1, 2014 and January 31, 2015 by searching for "Meta-Analysis[ptyp] AND ("2014/06/01"[PDAT]: "2015/01/31"[PDAT]) AND English[lang] appearing in the title, abstract or keywords (date search: March 16, 2015)

One researcher screened all titles and abstracts of citations retrieved to identify all reports of systematic reviews of RCTs with at least one meta-analysis including at least two RCTs and assessing pharmaceutical treatment (ie, drug, health-related biological product or biologic supplementation). We excluded updates of previously published systematic reviews and systematic reviews of diagnostic test accuracy, prognosis, economics evaluations, genetics, non-RCT studies, network meta-analyses, indirect comparison meta-analysis as well as individual patient data meta-analyses. The full-text of potentially relevant citations was obtained. As a quality control procedure, another researcher independently screened 20% of the citations and confirmed the eligibility of all systematic reviews included. Discrepancies were discussed to reach consensus.

#### **Data extraction**

From the published reports and supplementary appendices when available, two researchers independently recorded the following:

1) the general characteristics of the systematic review (ie, the type of journal: general medical journal, specialty journal or Cochrane review), the funding source (public,

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private or unclear), and the number of RCTs and participants included in the systematic review.

2) the reporting of the clinical trial registry search (ie, whether a search in a clinical trial registry was reported, the name and type of registries searched, and whether the results of the search were reported (the number and identification of RCTs identified from the clinical trial registry search).

Any disagreement was resolved by discussion and consensus.

# Impact of searching clinical trial registries

For each systematic review that did not report a search in clinical trial registries, we systematically performed a search reproducing the conditions of the original search reported in the systematic review, particularly taking into account the date of the search and the inclusion criteria of the systematic review.

We screened the retrieved records and identified all eligible completed or terminated RCTs that were not initially included in the systematic reviews. Then, for each RCT identified, we systematically searched for results and determined whether RCTs with results could be included in at least one meta-analysis.

#### Search strategy

Our search strategy followed the same search and selection process described by the authors of the published systematic reviews.

 From the selected full-text articles and all available supplementary materials, we systematically recorded the search terms related to the condition and interventions used by authors and the date of last electronic search. Systematic reviews that did not provide search terms or the date of search were excluded from this analysis.

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2) We searched the World Health Organization International Trials Registry Platform (WHO ICTRP Search Portal). We chose this portal because it includes 16 national and international primary registries including ClinicalTrials.gov. In the advanced search window of the WHO ICTRP Search Portal (http://apps.who.int/trialsearch/), we entered the search terms recorded in the "condition" and "intervention" fields with Boolean operators. We chose "all" in the "recruitment status" field and "Search for clinical trials in children" when appropriate. Details of the search strategies and keywords for each systematic review are available in Appendix 1.

#### Identification of completed or terminated RCTs

For each search, we downloaded all the citations retrieved and identified all studies registered before the date of the last search reported in the systematic review and with a recruitment status recorded as "completed" or "terminated".

For each systematic review, two researchers independently screened the records retrieved and selected all completed or terminated RCTs not already included in the systematic review that fulfilled the systematic review eligibility criteria in terms of participants, interventions, and comparator. We systematically verified in the history or archives of the registry that the recruitment status was recorded as "completed" or "terminated" before the date of the search (Appendix 2). Any disagreements were resolved by consensus. A third researcher screened all selected records to confirm their inclusion.

### Availability of RCT results

For each selected RCT, two researchers independently determined whether the trial results were available (ie, posted, published or available on the sponsor website). We searched for 1) results posted on clinical trial registries and 2) publications referenced on the trial registry and

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performed an electronic search of PubMed and Google and searched the sponsor website.
 All trials with results available were screened, and we selected only trials for which the results
 became available before the last electronic search of the systematic review.

#### Inclusion of the RCT results in meta-analyses

For each systematic review, we determined whether the additional RCTs with results available could be included in at least one meta-analysis. We recorded the number of metaanalyses reported in the systematic review, the number of meta-analyses that could include the additional RCTs, and the number of meta-analyses for which all the RCTs identified had available results and could be included in the meta-analysis.

Finally, we determined the impact of including the RCTs on treatment effect estimates. For each systematic review, we identified one meta-analysis in which at least one RCT with results available could be included. We considered successively the meta-analysis of 1) the primary efficacy outcome, 2) the primary safety outcome, and 3) the most clinically relevant outcome. If none of the above meta-analyses could include an RCT, we selected the meta-analysis that could include at least one RCT that was reported first.

For each meta-analysis selected, we extracted from the RCTs identified the outcome data (ie, number of events and number of patients in each group, means, standard deviations, etc). When the outcome data were available in several sources, we considered in priority the data reported 1) in the registry, 2) in a published report and 3) on the sponsor website.

#### Data analysis

Statistical analyses involved use of R version 3.1.0 (<u>http://www.R-project.org</u>, the R foundation for statistical Computing, Vienna, Austria). Qualitative variables are represented

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by percentages. Quantitative variables are represented by medians (1st quartile-3rd quartile [Q1-Q3]). For the meta-analysis selected for recalculation (one per selected systematic review), we calculated summary statistics (risk ratios, odds ratios, hazard ratios, mean <text><text><text><text><text> differences or standardized mean differences) and the  $I^2$  statistic (measure of heterogeneity) with and without trials retrieved by a trial registry search. We reported the magnitude of the change in the result of the meta-analysis as a percentage change in the summary statistic after including the RCTs retrieved. We replicated the published meta-analysis in terms of the statistical method (Peto, Mantel-Haenszel, inverse variance), strategies for assessing heterogeneity, analysis model (fixed v random effects), and measure of effect (risk ratio, odds ratio, weighted mean difference).

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#### RESULTS

#### Identification and characteristics of reports

Among the 2,249 citations retrieved, we selected 223 reports of systematic reviews with meta-analyses (fig 1). The characteristics of the selected systematic reviews are in table 1. One-third (35%) were Cochrane reviews; the median [Q1-Q3] number of RCTs included in systematic reviews was 10 [6-18] and the median [Q1-Q3] number of patients was 1,594 [614-5027].

#### Reporting of clinical trial registry search in systematic reviews

Among the 223 systematic review reports included, 107 (48%) reported the search of at least one clinical trial registry. Only individual registries were searched in 48 (45%) systematic reviews, only portals in 11 (10%) and a combination of individual registries and portals in 44 (41%). The portal and the individual register the most frequently searched was the WHO ICTRP Search Portal (n=53, 50%) and Clinicaltrials.gov (n=89, 83%), and for 40 studies (37%) both were searched. The results of the clinical trial registry search was clearly reported (ie, with a description of the number and the identification of RCTs identified from the search) in only 47 (21%) reports (fig 1, table 1).

### **RCTs identified by searching clinical trial registries**

Among the 116 systematic reviews not reporting a search in trial registries, for 21 (18%), we were not able to perform the clinical trial registry search because the search date or the keywords were not reported. Therefore, we performed the search for 95 systematic reviews. Among the 15,282 records screened (median [Q1-Q3] records screened for each systematic review = 23 [6-150]), we identified 122 eligible RCTs terminated or completed (involving 52,743 patients) not originally included in the systematic review.

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Overall, the trial registry searches identified at least one eligible RCT for 41 (43%) systematic reviews, with a median [Q1-Q3] of 9% [4-18] additional patients per systematic review (fig 2, table 2). Among these 41 systematic reviews with additional RCTs identified, the number of patients included was increased by 10% in 19, 20% in 10, 30% in 7, and 50% in 4 (fig 3).

We identified results for 63/122 RCTs (52%) involving 42,202 patients, and 45/122 (37%) involving 21,358 patients could be included in the quantitative analyses (ie, reported sufficient data to be included in at least one meta-analysis of the systematic review). The 18 remaining RCTs with results could not contribute to the quantitative analysis because the outcome of interest was not reported. The results of the RCTs identified were 1) posted (n=41, 65%); 2) published as identified by a reference reported on the registry (n=21, 33%) or from a complementary search (n=10, 16%); or 3) were available on the company's Web site (n=31, 48%). The results were available in one (n= 29, 46%), two (n=27, 43%) or three sources (n= 7, 11%).

For 14 systematic reviews, the trial registry searches allowed for identifying RCTs with results (n=45) that could contribute to the quantitative analysis. Among the 73 meta-analyses reported in these 14 systematic reviews; the search in trial registries retrieved additional results that could be included in 59 meta-analyses. Overall, 31/59 meta-analyses were considered complete (ie, all the RCTs identified had available results and could be included in the meta-analysis).

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#### Impact of the search of clinical trial registries

Finally, we recalculated the effect estimates for one meta-analysis selected from the 14 systematic reviews including RCTs that could contribute to the quantitative analysis. The weight of the eligible RCTs included ranged from 0% to 58% and was increased by 10% in five of 14 systematic reviews, 20% in three, and 50% in one. The change in summary statistics varied from 0% to 29% and was greater than 10% for five of 14 systematic reviews and greater than 20% for two (table 2).

#### DISCUSSION

#### **Summary of findings**

Despite recommendations [23], only one-fifth of the published systematic reviews performed and reported the results of a search of trial registries. Our trial registry search allowed for identifying additional studies for 43% (n=41/95) of the systematic reviews published, thus increasing the number of patients included by 10% in 18 reviews, 20% in nine, 30% in six and 50% in four. However, because of the lack of data availability, data for half of the eligible RCTs retrieved could not be included in systematic reviews. We re-analyzed 14 metaanalyses to include data from RCTs retrieved by the trial registry search. The weight of the eligible RCTs included varied from 0% to 58% and the change in summary statistics from 0% to 29%.

#### Comparison with other studies

Our results are consistent with other studies showing that the search for unpublished trial data is still often lacking in systematic reviews [24–29] as in a random sample of 300 recent systematic reviews indexed in MEDLINE in February 2014 of which 19% reported searching trial registries[24]. This lack of registry searching is considered unethical by some authors [9]. A previous study by Hart in 2012 aimed to re-analyze meta-analyses by adding unpublished trial outcome data obtained from the US Food and Drug Administration (US FDA) to published meta-analyses[30]. The study documented that the addition of unpublished trial data obtained from the US FDA could change the magnitude of the effect size or in a few cases the statistical significance of meta-analyses. However, to our knowledge, the impact of searching trial registries in terms of identifying trials and their inclusion in the analysis when results are available has never been evaluated.

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### Limitations

Our study has some limitations. First, we searched only the WHO ICTRP Search Portal using the keywords reported by authors for their electronic search. Consequently, we cannot claim that we identified all RCTs. However, this portal brings together 16 national and international primary registries including ClinicalTrials.gov. Furthermore, in a previous study, the overlap between ICTRP and ClinicalTrials.gov was good, because all records identified in ClinicalTrials.gov were also identified in ICTRP[31]. Second, we did not account for eligibility criteria related to trial quality, and some trials could secondarily be excluded because of insufficient quality. Third, we did not attempt to contact investigators of the unpublished trials to obtain results. In fact, we aimed to reproduce the condition the authors encountered and it would not be appropriate to ask authors for results after such a delay. Therefore, the number of systematic reviews with trials identified by clinical trial registry searching and the results of RCTs retrieved from clinical trial registries are possibly underestimated. Finally, we focused on only systematic reviews of pharmaceutical treatment and cannot extrapolate to non-pharmaceutical treatments because the regulation for trial registration and posting of results is less stringent with these treatments.

### Implications for clinicians and policy makers

Clinical trial registries have been developed and enforced by editors and policy makers to reduce waste in research and publication bias. They have been considered an important step toward more transparency and increasing research value. However, the collection of these data is relevant only if it is actually used to reduce waste in research. Actually searching clinical trial registries is still not routine: in our study, among 223 systematic reviews, 107 (47%) of the authors reported searching at least one clinical trial registry. Therefore,

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systematic reviewers who are not using these essential databases could miss an important opportunity[25,27,29].

The additional work needed to screen trials registries is small; for example, in our study, the median [Q1-Q3] number of of RCTs screened for each search was 23 [6-150]. However, this effort is counterbalanced by the lack of availability of results, particularly the lack of posting results. Indeed, a previous study showed that the reporting of results was more complete at ClinicalTrials.gov than in published reports[32]. Actually, despite many initiatives to facilitate the access of clinical trial results, such as the FDAAA in 2007, which required the posting of clinical trial results,[18] or pharmaceutical company policies, the posting of results is limited[33,34]. In the cross sectional study authored by Prayle et al, among 738 registered trials, 22% posted results according to the mandatory FDAAA 801 requirements[35]. Our study showed similar results: among the 122 RCTs identified as completed or terminated in a registry, only 41 (34%) had results posted.

For authors, editors and peer reviewers, the use of trial registries in systematic reviews needs improvement. Furthermore, health authorities should pursue their policy to improve the registration of trials and the posting of results. Some researchers have developed an intervention to improve posting, such as emailing a reminder of the FDAAA 801 requirement to responsible parties[36]; other interventions are necessary.

#### CONCLUSION

Searching clinical trial registries is essential for identifying additional trials that could increase the value of systematic reviews. However, the lack of availability of RCT results limits the value of the search. Trial registry searching should be promoted and enforced, as should the posting of trial results.

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# Contributions

Conceived, designed and experiments: MB, AY, IB, PR, Wrote the first draft: MB, IB, AY Contributed to the writing of the manuscript: MB, AY, IB, PR Data analyses MB, AY, and EP.

# **Transparency declaration**

AY affirms that this manuscript is an honest, accurate, and transparent account of the study being reported; that no important aspects of the study have been omitted; and that any discrepancies from the study as planned have been explained.

AY and IB had access to all of the data in the study and take responsibility for the integrity of the data and the accuracy of the data analysis.

# **Data sharing**

All data from this study—including literature searches, additional explanatory material, and data extraction forms—are available on request.

# **Conflicts of interest**

None of the authors have conflicts of interest to declare.

# **Financial support**

This study received no funding.

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# TABLES

Table 1 Characteristics of included systematic reviews and registry searches

 Table 2 Effect of adding randomized controlled trials retrieved from clinical trial registries on

 meta-analyses

# FIGURES

Fig 1 Study flow diagram

Fig 2 Identification of additional trials by searching trial registries

Fig 3 Percentage of additional patients with and without results per systematic review

# APPENDIX

**Appendix 1** Verification of the recruitment status according to the registry

Appendix 2 Keywords, date of search and detection in the WHO ICTRP Search Portal

Appendix 3 Impact of trial registry searches on summary statistics

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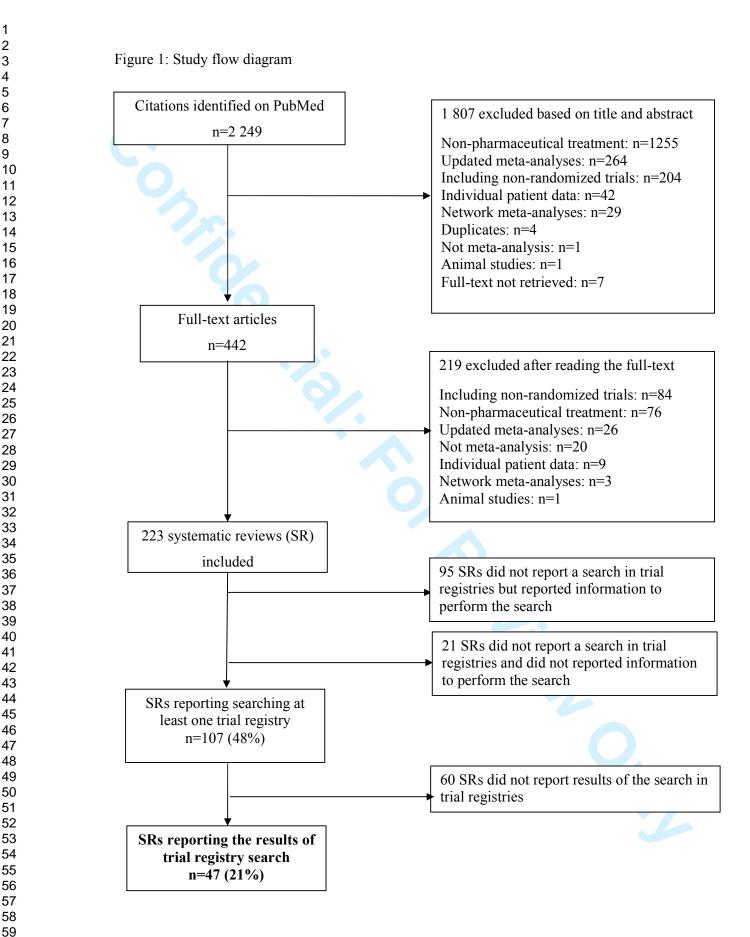
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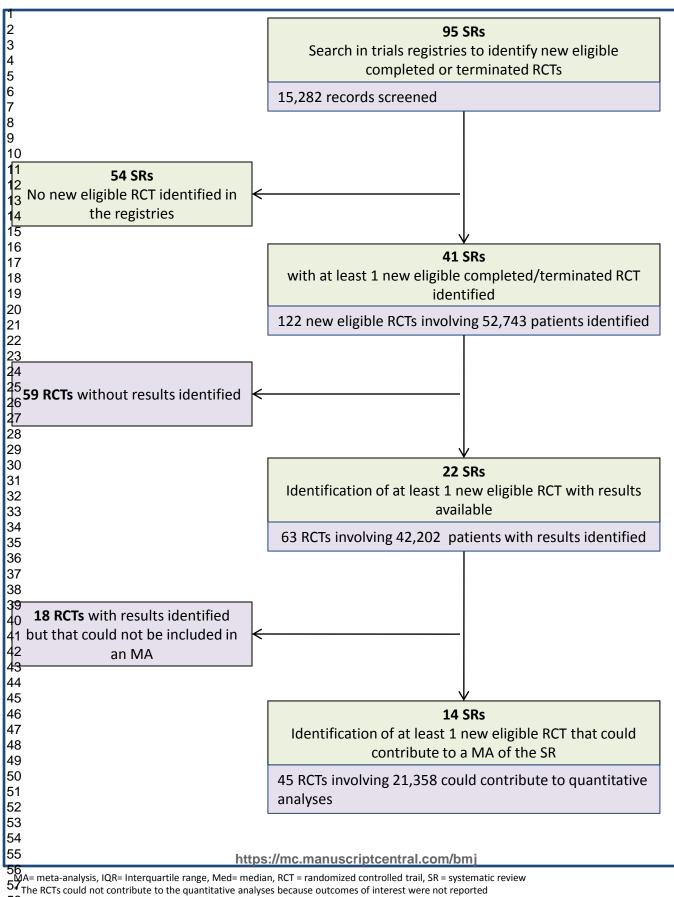
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Figure 2: Identification of trials by searching trials registries (WHO ICTRP Search Portal)

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Characteristics of the syste	matic reviews	Systematic reviews
Characteristics of the syste		n=223 (%)
Type of review	- Cochrane reviews	77 (35)
	- Non-Cochrane reviews	146 (65)
Funding	- Public	106 (47.5)
	- Private	3 (1.3)
	- No funding	33 (14.8)
	- Not reported or unclear	81 (36.3)
Number of RCTs included	in the SRs Median [Q1-Q3]	10.0 [6.0-18.0]
	Min-max	2-158
Number of patients include		1,594.0 [614.0-5,027.0]
SRs*	Min-max	47-102,607
Clinical trial registry searc	ch (yes)	107 (48.0)
Characteristics of registry	search	n=107 (%)
Search portal (at least one	portal searched)	57 (53.3)
- WHO ICTRP		53 (49.5)
- MetaRegister of C	Current Controlled Trials	15 (14.0)
- International Fede Manufacturers an	eration of Pharmaceutical d Associations	1 (0.9)
Individual clinical trial reg ICMJE (at least one searcl	istries approved by the WHO or ned)	93 (86.9)
- ClinicalTrials.gov		89 (83.2)
- International Stan Number Register	dard Randomised Controlled Trial	22 (20.6)
- EU Clinical Trials	•	5 (4.7)
	ealand Clinical Trials Registry	5 (4.7)
- Japan Primary Re	-	3 (2.8)
- Chinese Clinical	Trial Registry	1 (0.9)
Non-approved or unclear i	ndividual clinical trial registries	11 (10.3)
RCTs: Randomized controlled tria * Number of patients included was	ls; SKS: Systematic reviews unclear or missing in 9 non-Cochrane SRx	

# Table 1: Characteristics of included systematic reviews and registry searches

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#### Table 2 Effect of adding randomized controlled trials retrieved from clinical trial registries on meta-analyses Number of Number of RCTs Weight of the Number of RCTs **RCTs** (and (and patients) Change in Summary statistic of the Summary statistic of the new RCTs retrieved with (and patients) patients) summary selected meta-analysis in selected meta-analysis included in the included in the retrieved from results that could statistic the original SR with new RCTs included selected meta-WHO ICTRP contribute to at (%) original SR analysis (%) least one MA search 0 21 (12242) 2 (1587) 1 2 10 (1052) 4 (274) 0 3 9 (11007) 4 (810) 2 (550) RR 0.83 [0.74 ; 0.93] RR 0.85 [0.76; 0.94] 0.2 13 4 7 (27024) 1 (60) 0 5 16 (33958) 1 (129) 1(129)RR 0.79 [0.52; 1.19] RR 0.80 [0.54 ; 1.20] 1.5 5 6 18 (9952) 1 (73) 1 (73) OR 0.51 [0.36 ; 0.70] OR 0.53 [0.38; 0.73] 1.9 6 HR 0.87 [0.82 ; 0.91] HR 0.88 [0.84 ; 0.93] 7 20 (8225) 8 (1806) 2 (1400) 8.6 8 10\* 8 7 (15613) 0 9 5 (4155) 1 (9) 0 10 5 (613) 1(400) 0 11 19 (101801) 2 (317) 2 (317) RR 1.40 [1.08; 1.82] RR 1.37 [1.06; 1.75] 8.6 6 12 25 (1599) 3 (132) 0

https://mc.manuscriptcentral.com/bmj

13	9 (2812)	4 (745)	0				
14	10 (924)	2 (162)	0				
15	14 (42602)	1 (166)	0	OR 0.88 [0.79 ; 0.99]	OR 0.88 [0.79 ; 0.98]	0	0
16	6 (2264)	1 (1029)	1 (1029)	HR 0.89 [0.80 ; 0.99]	HR 0.90 [0.83 ; 0.98]	34.8	1
17	24 (1794)	1 (100)	0				
18	6 (1268)	1 (50)	0				
19	7 (2340)	1 (8)	0				
20	9 (2857)	1 (514)	1 (514)	MD -1.77 [-2.13 ; -1.41]	MD -1.66 [-1.99 ; -1.32]	16.1	6
21	6 1420)	1 (217)	0				
22	128*	1 (66)	0				
23	23 (24370)	5 (3291)	0				
24	12 (1268)	2 (490)	0				
25	70 (32054)	4 (2039)	4 (2039)	OR 1.79 [1.17 ; 2.74]	OR 1.52 [1.04 ; 2.23]	18.7	2
26	8 (4855)	1 (501)	0				
27	43 (16011)	7 (943)	2 (477)	RR 1.63 [1.32 ; 2.01]	RR 1.62 [1.32 ; 2.99]	1.2	1
28	18 (2305)	2 (80)	0				
29	3 (130)	1 (20)	0				
30	9 (662)	1 (80)	0				
31	11 (2587)	1 (240)	0				

Page	28	of	85
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32	9 (765)	2 (430)	0				
33	12 (1304)	1 (70)	0				
34	11 (1481)	2 (142)	0				
35	32 (6812)	8 (3831)	5 (2942)	SMD -0.21 [-0.29 ; -0.12]	SMD -0.19 [-0.28 ; -0.11]	9.0	10
36	23 (18980)	28 (14733)	21 (11298)	MD -0.35 [-0.51 ; -0.19]	MD -0.45 [-0.55 ; -0.36]	58.3	29
37	8 (1176)	2 (181)	0				
38	9 (11390)	2 (355)	1 (322)	RR 18.28 [12.76 ; 26.17]	RR 14.20 [10.72 ; 18.81]	37.6	9
39	15 (8332)	1 (688)	0				
40	7 (523)	1 (22)	0				
41	12 (6297)	2 (340)	1 (102)	HR 0.99 [0.90 ; 1.09]	HR 0.99 [0.90 ; 1.10]	3.5	0
Total	719 (411661)	122 (52743)	45 (21358)				

BMJ

MA: meta-analysis; RCT: randomized controlled trial; SR: systematic review; OR: odds ratio; HR: hazard ratio; RR: risk ratio; SMD: standardized mean odds ratio, rin, i....

difference; MD: mean difference

\* Number of patients included was unclear or missing in two SRs

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#### APPENDIX

#### Appendix 1: Verification of the recruitment status according to the registry

#### **ClinicalTrials.gov**

We systematically verified the Last Verified date recorded in the registry (ie, the most recent date on which all of a clinical study's information on ClinicalTrials.gov was confirmed as accurate and current).

If the Last Verified date was before the date of the search, the trial was included.

If the Last Verified date was after the date of the search, we verified in the archives of the registry Web site when the status was modified and we excluded trials that were recorded as "completed" or "terminated" after the date of search.

#### **UMIN registry:**

We systematically verified the "Date of last update". If this date was before the date of the search, the trial could be included.

If the" Date of last update" was after the date of search, we verified that the "date trial data considered complete" and the "date analysis concluded" was before the date of the search and we verified in the history of the registry that these dates were recorded before the date of search; if not, the trial was excluded.

#### **ISRCTN:**

We systematically verified the "Last edited" date. If this date was before the date of the search, the trial could be included.

If the" Last edited" date was after the date of the search, we verified the "Recruitment end date" and the "Overall trial end date."

Because this registry did not give access to archives, if additional identifiers with a ClinicalTrials.gov number was provided, we searched this registry.

# ANZCTR:

We systematically verified the timing of the registration status in the history. The history reported the timing of the modification with the reason for the modification.

# **Eudract:**

We downloaded the full trial details; we checked the trials status and the date on which this record was first entered in the EudraCT database

# Appendix 2: Keywords, date of search and finding in the WHO ICTRP Search Portal

ID	Key words used in "Conditions" field	Key words used in "Interventions" field	First limit of search	Last electronic search	Citation findings
1	stomach neoplasms OR gastric cancer OR carcinosis	paclitaxel OR S-1 OR fluorouracil		30/11/2013	350
2	HIV OR antiretroviral naïve	tenofovir OR gs4331 OR gs 4331 OR gs-4331		31/10/2013	344
3	Sleep Bruxism			31/08/2014	23
4	constipation OR fecal impaction	polyethylene glycol OR laxative		10/02/2014	48
5		perphenazine		31/10/2013	14
6	food hypersensitivity OR food allergy	probiotics OR bifidobacterium OR lactobacillus		30/09/2013	10
7	coronary angiography	statin OR atorvastatin OR rosuvastatin OR cerivastatin OR simvastatin OR pravastatin OR lovastatin OR Hydroxymethylglutaryl-CoA reductase inhibitors OR HMG-CoA reductase inhibitors		31/01/2014	321
8	Myelodysplastic Syndromes OR refractory anemia OR Preleukemia OR refractory cytopenia OR Refractory anemia excess blasts OR Thrombocytopenia	Romiplostim OR eltrombopag		28/02/2014	64
9	hypertension OR blood pressure	abitesartan OR azilsartan OR candesartan OR elisartan OR embusartan /// eprosartan OR forasartan OR irbesartan OR losartan OR milfasartan OR olmesartan OR saprisartan OR tasosartan OR telmisartan OR valsartan OR zolasartan OR KT3- 671 OR atacand OR teveten OR		15/01/2014	909

ID	Key words used in "Conditions" field	Key words used in "Interventions" field	First limit of search	Last electronic search	Citation finding
		avapro OR cozaar OR benicar OR micardis OR diovan			
10	thrombosis OR embolism OR thromboembolism	new oral anticoagulants OR direct coagulation OR Xa inhibitor OR IIa inhibitor OR thrombin inhibitor OR rivaroxaban OR dabigatran OR apixaban OR edoxaban		28/02/2014	106
11	alcoholic pancreatitis OR chronic pancreatitis	antioxidant OR ascorbic acid OR bilirubin OR butylated hydroxyanisole OR butylated hydroxytoluene OR canthaxanthin OR carotenoids OR catalase OR ergothioneine //// grape seed extract OR melatonin OR nordihydroguaiaretic acid OR probucol OR propyl gallate OR pyrogallol OR quercetin OR selenium OR silymarin OR thioctic acid OR tocopherols /// tocotrienols OR uric acid OR vitamin OR alpha- tocopherol OR beta-tocopherol OR gamma-tocopherol OR zeta carotene OR beta-carotene OR curcumin OR methionine OR allopurinol OR oxidizing agent		31/03/2010	6
12	chronic kidney disease AND hyperuricemia			15/11/2012	11
13	acute coronary syndromes OR ST- elevation myocardial infarction OR non-ST-elevation myocardial infarction OR unstable angina	bivalirudin OR angiomax OR hirulog OR stent OR percutaneous coronary		09/04/2014	71
14	atrial fibrillation	atorvastatin		30/04/2014	12
15	arterial compliance OR pulse wave OR vascular siffnesss OR applanation tonometry OR arterial stiffness OR pulse	antioxydants OR ascorbic acid OR vitamin E OR vitamin A OR vitamin C OR tocopherol OR carotene OR dietary supplements		31/12/2013	5
16		fluphenazine		01/05/2010	6
17		Nalbuphine OR en2234a OR en 2234a OR nubain		31/07/2013	10
18	colon OR rectum OR colorectal	Biological agent OR Biological therapy OR VEGF-A OR VEGFA OR EGF receptor OR bevacizumab OR cetuximab OR panitumumab OR aflibercept OR regorafenib		5/31/2013	684
19		new oral anticoagulant OR oral thrombin inhibitor OR factor Xa inhibitor OR dabigatran OR rivaroxaban OR apixaban	01/01/20 01	23/03/2014	217

ID	Key words used in "Conditions" field	Key words used in "Interventions" field	First limit of search	Last electronic search	Citation findings
20	cystic fibrosis OR CF OR mucovicidosis	appetite stimulants OR cyproheptadine OR prednisolone OR progestational agents OR progestins OR anabolic agents OR megesterol OR megace OR mirtazapine OR antidepressive agents OR antidepressants OR cannaboids OR tetrahydrocannabinol /// antihistamines OR histamine antagonists OR corticosteroids OR prednisone OR steroids OR hormone therapy OR growth hormone OR hormones OR dronabinol OR pizotyline OR pizotifen OR risperidone OR olanzapine		08/04/2014	4
21	colorectal cancer OR colon cancer OR rectal cancer	panitumumab OR vectibix		31/03/2014	122
22	breast cancer	gonadotropin releasing hormone OR GnRH analogue OR GnRH agonist OR triptrorelin OR goserelin OR leuprolide OR busselin OR nafarenlin		31/03/2014	84
23		haloperidol		01/05/2010	82
24		metformin AND (repaglinide OR novonorm)		30/11/2013	11
25		trifluoperazine		01/05/2010	3
26	contrast induced acute kidney injury OR CIN OR contrast induced nephropathy OR contrast nephropathy OR AKI OR acute kidney injury OR ARF OR acute renal failure	statin OR 3-hydroxy-3- methylglutaryl coenzyme A reductase inhibitor OR HMG-CoA OR CI AKI OR CI-AKI OR		10/02/2014	1
27		rivaroxaban OR dabigatran OR apixaban OR new oral anticoagulant OR oral thrombin inhibitors OR oral factor Xa inhibitors	01/01/20 01	15/09/2013	180
28	tonsillectomy OR adenotonsillectomy	ketamine OR analgesics OR opioid		01/02/2013	1
29	gastrointestinal cancer OR gastric cancer OR colorectal cancer OR colon cancer OR rcetal cancer	S-1 OR 5-fluorouracil		31/12/2013	631
30	dermatitis OR eczema OR atopy OR atopic	probiotics OR prebiotics OR synbiotics OR lactobacillus OR lactobacilli bifidobacteria OR bifidobacterium		31/12/2013	42
31	heart failure AND congestive	adrenergic beta-antagonists		31/12/2013	6
32					
33	agitation OR delirium	sevaflurane OR dexmedetomidine		15/03/2014	49
34	thyroid cancer	recombinant human thyroid hormone stimulating hormone OR		31/08/2013	2

First

limit of

search

1/1/1950

01/01/20

04

Last

electronic

search

31/03/2013

28/02/2014

6/30/2013

08/12/2013

31/03/2014

1/31/2014

20/02/2014

30/09/2013

31/12/2013

28/02/2014

30/11/2013

10/02/2013

4/30/2014

Citation

findings

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289

76

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ID	Key words used in "Conditions" field	Key words used in "Interventions" field
		thyroid hormone withdraw
35	hypertension portal	propranolol AND carvedil
36	cancer OR tumour OR carcinoma OR neoplasm	vitamin D OR cholecalcifero ergocalciferol
37	inflammation OR high-sensitivity C- reactive protein OR high-sensitive C- reactive protein OR hs-CRP	vitamin D OR cholecalcife
38	Embolism OR Thrombosis OR Postoperative Complications OR Intraoperative Complications OR deep venous thrombosis OR DVT OR pulmonary embolism OR thrombosis OR thrombotic OR emboli OR thromboemboli OR thromboprophyla OR bleed OR hemorrhag OR complication	Anticoagulants OR heparin UFH OR LMWH OR warfarin coumadin OR vitamin K antag OR VKA OR aspirin OR ASA factor Xa inhibitor OR fondaparinux OR rivaroxabar apixaban OR thrombin inhibito dabigatran
39		dabigatran OR BIBR 104
40	operable advanced breast cancer OR locally advanced breast cancer	neoadjuvant OR trastuzumab lapinib OR pertuzumab
41	contrast medium OR contrast OR radiography OR angiocardiography OR angiography OR heart catheterization OR cardiac catheterization OR kidney diseases OR kidney failure OR nephritis OR kidney disease OR nephrotoxicity OR nephrotoxic OR contrast nephropathy	hydroxyl methylglutaryl coen: A reductase inhibitor OR HM CoA reductase inhibitor OR st OR atorvastatin OR rosuvast OR simvastatin OR pravastati cerivastatin OR fluindostatin fluvastatin
42	gastric cancer OR stomach cancer	S-1 OR fluouracil
43	peri-operative period OR postoperativeperiod OR surgery OR surgical OR operation OR surgical procedures OR operative procedures	melatonin
44	"chronic obstructive pulmonary disease" OR "COPD"	"tiotropium" AND "fluticase propionate/salmeterol" et "tiotropium" AND "fluticaso salmeterol"
45	cancer	"bevacizumab" OR "avastin" "aflibercept" OR "VEGFR-T OR "sorafenib" OR "nexavae" "sunitinib" / "sutent" OR "SU OR "vandetanib" OR "caprelsa "ZD6474" OR "axitinib" C "pazopanib" OR "votrient" "GW786034" OR "regorafenit "apatinib" OR "ramucirumab "angiogenesis inhibitors"
46	"Kashin-Beck disease" or "KBD" or "Urov"	"hyaluronic acid" or "hyaluro or "hyaluronate" or "HA"
47	Parkinson's disease OR Parkinson's OR PD	extended-release pramipexolo ropinirole prolonged-released

ID	Key words used in "Conditions" field	Key words used in "Interventions" field	First limit of search	Last electronic search	Citation findings
48	non-small-cell lung cancer OR EGFR wild-type OR EGFR mutation-negative	epidermal growth factor receptor inhibitors OR erlotinib OR gefitinib		31/07/2013	362
49	Gestational diabetes OR gestational diabetes mellitus OR diabetes pregnancy	Metformin OR hypoglycemic drugs OR Hypoglycemic Agents OR Antidiabetic		31/12/2012	664
50	schizophrenia	chlorpromazin		30/06/2013	6
51	("malignant glioma" or "high-grade glioma" or "GBM" or "HGG"	"herpes simplex virus thymidine kinase" or "HSV-tk" or "gene therapy" or "genetic therapy"		30/11/2013	1
52	nonalcoholic fatty liver disease OR NAFLD OR nonalcoholic steatohepatitis OR NASH	pentoxifylline		31/01/2013	2
53	add-back OR HRT OR GnRHa OR GnRH-a OR GnRH agonist OR GnRH analogues		01/01/19 98	28/02/2013	12
54	Clonidin OR Catapres OR Dexmedetomidine			06/02/2013	12
55	"alfusosin" OR "doxazosin" OR "tamsulosin" OR "terazosin" OR "silodosin" OR "fiansteride" OR "dutasteride" OR "sildenafil" OR "tadalafil" OR "vardenafil" OR "toxybutynin" OR "tolterodine" OR "torspium chloride" OR "darifenacin" OR "solifenacin" / "fesoterodine" OR "mirabegron" / "serenoa" OR "Adrenergic alpha-Antagonists" OR "5- alpha reductase inhibitors" OR "phosphodiesterase 5 inhibitors" OR "cholinergic antagonists" OR "2-(2- aminothiazol-4-yl)-4'-(2-((2-hydroxy-2- phenylethyl)amino)ethyl)acetanilide" OR "serenoa"			31/01/2013	104
56	local analgesia OR "intra-articular analgesia			31/08/2013	1
57	chemotherapy OR per-formance status			31/07/2013	274
58	ovarian cancer	systematic chemotherapy OR pegylated liposomal doxorubicin	01/01/20 00	31/01/2013	41
59	rheumatoid AND arthritis	infliximab OR etanercept OR adalimumab OR certolizumab OR golimumab OR anakinra OR abatacept OR tocilizumab OR rituximab		6/24/2013	581
60		ranibizumab OR bevacizumab	01/01/20 04	31/03/2013	215
61		axitinib OR cabozantinib OR erlotinib OR gefitinib OR lapatinib OR pazopanib OR regorafenib OR sorafenib OR sunitinib OR vandetanib		3/31/2013	3576
62		statin		31/07/2013	0
63	Erectile dysfunction OR Lower urinary tract symptoms OR Benign prostatic	alpha-blockers OR doxazosin OE alfuzosin OR tamsulosin OR PDE5		30/11/2013	52

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28 29 30
31 32 33
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44 45 46
47 48 49
50 51 52 53
53 54 55 56
57 58 59
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ID	Key words used in "Conditions" field	Key words used in "Interventions" field	First limit of search	Last electronic search	Citation findings
	hyperplasia OR ED OR LUTS OR BPH	OR sildenafil OR tadalafil OR vardenafil OR udenafil			
64	malignant OR neoplasms OR cancer OR oncology	palonosetron AND (antineoplastic agents OR neoplastic OR chemotherapy OR chemoradiotherapy)		30/06/2013	9
65		hypotonic AND isotonic		31/01/2013	3
66	body fat OR body weight OR fat free mass OR fat mass OR adiposity OR fat distribution OR body fat regulation OR BMI OR weight loss OR body composition.	vitamin D OR vitamin D supplementation	01/01/19 95	31/03/2013	51
67	cardiac surgery OR cardiopulmonary bypass OR heart surgery	steroid OR corticosteroid glucocorticoid OR dexamethasone OR prednisolone OR prednisone OR methylprednisolone OR hydrocortisone	1996	30/04/2013	9
68	cardiovascular disease OR coronary OR myocardial ischemia OR stenosis OR restenosis OR revascularization OR coronary OR coronary intervention OR cerebrovascular OR percutaneous disease OR stroke	folic acid OR folate OR multivitamin	1966	30/09/2013	109
69	Multiple Sclerosis	Serotonin Uptake Inhibitors OR SSRI OR fluoxetine OR citalopram OR dapoxetine OR escitalopram OR fluvoxamine OR indalpine OR paroxetine OR sertraline OR vilazodone OR zimeldine		20/03/2013	8
70	postoperative pain OR postoperative nausea vomiting	nicotine		31/07/2012	2
71	chronic obstructive pulmonary disease OR chronic bronchitis OR pulmonary emphysema OR COPD	NAC OR acetylcysteine		01/08/2013	12
72	hyperglycemia OR stroke	intravenous insulin	1966	15/02/2013	3
73		gonadotropin-releasing hormone agonist OR luteinizing-hormone releasing hormone agonist OR triptorelin OR goserelin	01/01/19 92	30/08/2013	258
74	bacterial vaginitides OR bacterial vaginoses OR bacterial vaginitis OR bacterial vaginosis.	Probiotics OR lactobacillus OR bifidobacterium OR lactobacilli OR lactic acid bacteria.		31/05/2013	18
75	Erectile Dysfunction OR Impotence	Mirodenafil OR 5-ethyl-2-(5-(4-(2- hydroxyethyl)piperazine-1- sulfonyl)-2-propoxyphenyl)-7- propyl-3,5-dihydro-4H-pyrrolo(3,2- d)pyrimidin-4-one OR SK3530	1966	31/03/2013	6
76		Lidocaine AND (opioid OR fentanyl OR remifentanil OR sufentanil OR alfentanil)		31/03/2013	36
77	myocardial infarction OR percutaneous coronary intervention OR acute coronary syndrome	cangrelor		30/04/2013	7

ID	Key words used in "Conditions" field	Key words used in "Interventions" field	First limit of search	Last electronic search	Citation finding
78	arthroscopic OR postoperative pain	bupivacaine		30/04/2013	76
79	anaesth OR anaesth OR nerve block	dexamethasone		16/05/2014	3
80	0	miralax and gatorade OR		31/01/2014	3
81	rhinoplasty			28/02/2014	12
82	atrial fibrillation OR atrial tachycardia OR atrial tachyarrhythmia OR AT OR atrial flutter	catheter ablation OR radiofrequency ablation		14/03/2014	107
83	Alzheimer disease OR AD	cholinesterase inhibitors OR donepezil OR galantamine OR rivastigmine OR metrifonate OR tacrine OR antipsychotics OR haloperidol OR thioridazine OR thiothixene OR chlorpromazine OR olanzapine //// risperidone OR quetiapine OR aripiprazole OR antidepressants OR setraline OR fluoxetine OR citalopram OR trazodone OR mood stabilizers OR valproate OR carbamazepine OR lithium OR anticonvulsants OR benzodiazepines OR memantine OR		31/12/2013	227
84	cardiac surgery OR valve surgery OR coronary surgery OR cardiopulmonary bypass OR extracorporeal circulation	psychotropic drugs glucocorticoid OR steroid OR hydrocortisone OR dexamethasone OR methylprednisolone"		31/08/2013	7
85	CPR OR cardio-pulmonary resuscitation OR cardio-arrest	vasopressine OR epinephrine OR adrenaline		20/08/2013	0
86		DPP-IV inhibitors OR vildagliptin OR sitagliptin OR saxagliptin OR alogliptin OR linagliptin OR dutogliptin OR metformin OR sulfonylureas		1/31/2013	1661
87	carotenoids and visual function OR visual performance OR visual acuity OR vision OR contrast sensitivity OR glare sensitivity OR AMD OR age- related maculopathy OR choroidal neovascularization OR geographic atrophy	lutein OR zeaxanthin OR xanthophyll	Q	30/04/2014	27
88	psoriasis OR pustulosis of palms OR pustulosis of soles	ustekinumab OR CNTO-1275 OR interleukin 12/23 monoclonal antibody OR sterala		01/08/2013	26
89		lapatinib		28/02/2014	325
90	prostat	hormone therapy OR intermittent androgen OR androgen antagonists /// hormone blockade OR androgen deprivation OR continuous androgen OR hormone deprivation OR LHRH OR luteinising hormone- releasing hormone OR flutamide		4/30/2013	303

	Key words used in "Conditions" field	Key words used in "Interventions" field	First limit of search	Last electronic search	Citation findings
		OR bicalutamide OR cyproterone OR buserelin OR goserelin OR leupro OR triptorelin OR nilutamide			
91	Premature OR infant OR newborn OR low birth weight OR neonate OR premature OR neurodevelopment OR neuroprotection OR neurobehavioral development OR neurological development OR neural development	Erythropoietin OR epo OR epogen OR epoetin OR rhuepo		30/11/2012	11
92	spastic colon OR irritable colon OR irritable bowel OR functional bowel OR colonic disease OR colonic diseases OR IBS OR gastrointestinal sydrome			28/01/2013	2
93		tramadol AND ondansetron		18/08/2014	1
94	colorectal OR neoplasms	cetuximab		16/02/2014	665
95		nicergoline		16/08/2013	3

# Appendix 3: Impact of trial registry searches on summary statistics

## 1. 1 Systematic review ID474

	3		
	1.1	Title of the systematic review.	 3
	1.2	Inclusion criteria	
			3
	3.	1.3 Comparison assessed	
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	1.4	Results	3
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3.		tematic review ID497	
	4	tematic review 10497	
	2.1	Title of the systematic review.	•••
	 2.2	Inclusion criteria	4
			4
	3.	2.3 Comparison assessed	
		4	
	2.4	Results	•
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3.	3		
	Sys 5	tematic review ID522	
		Title of the systematic review.	
		Inclusion criteria	5
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	3.	3.3 Comparison assessed	_
	3.4	Results	5
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	Syst	tematic review ID607	
	7 4.1	Title of the systematic review.	
			7
	4.2	Inclusion criteria	 7
	 3.	4.3	/
		Comparison assessed	7
	4.4	Results	 7
_			-
3.	5 Svst	tematic review ID784	
	<b>8</b>		
	5.1	Title of the systematic review.	 8
	 5.2	Inclusion criteria	

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6		Comparison assessed
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8		5.4 Results
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## 30. 12.4 Results

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# 1. 1 Systematic review ID 474

# 2. 1.1 Title of the systematic review

Angiotensin converting enzyme (ACE) inhibitors versus angiotensin receptor blockers for primary hypertension

# 1. 1.2 Inclusion criteria

Studies:

- directly compared an ACE inhibitor and an ARB;
- – randomized participants to the ACE inhibitor group or the ARB group;
- had the same protocol regarding continuation or discontinuation of pre-study blood pressure lowe- ring therapy in both arms;
- had the same protocol for adding background blood pressure lowering therapy during the trial in both arms;
- — had a prespecified duration of at least one year;
- — were double blinded when included for WDAE.

# 1. **1.3 Comparison assessed**

ARBs ACE inhibitors NCT00433836 Valstartan

https://mc.manuscriptcentral.com/bmj

ARBs

3.17

BMJ

Enalapril NCT00446511

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Valstartan Enalapril 1. Results 1.4 ACE inhib. Withdrawals due to AE Study Events Total Events Total RR 95%-CI W(fixed) New study NCT00433836 7 151 0 148 14.70 [0.85; 255.14] 0.1% NCT00446511 103 3 1 109 [0.34; 30.03] 0.2% **Fixed effect model** 10 254 257 1 7.12 [1.28; 39.57] 0.2% Heterogeneity: I-squared=0%, tau-squared=0, p=0.3883 **Original study** Fogari 2011 **ONTARGET 2008** Bremner 1997 DETAIL 2004 Fogari 2008 Fogari 2012 Lacourciere 2000 Spoelstra-de 2006 3 132 465 4711 37 334 16 100 1 122 3 102 2 52 3 24 7 130 535 4687 30 167 24 102 5 124

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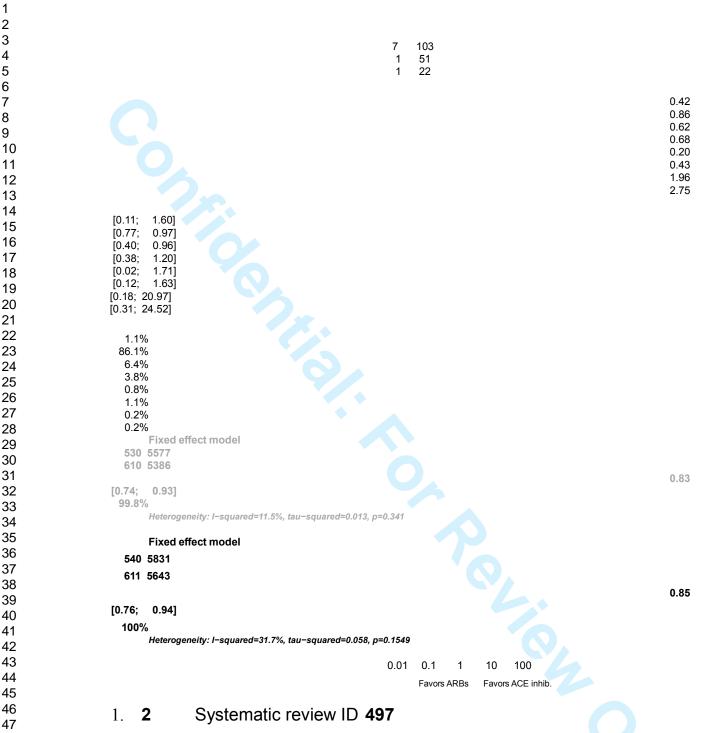
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#### 2. 2.1 Title of the systematic review

Bivalirudin versus heparin in patients planned for percutaneous coronary intervention : a meta-analysis of randomised controlled trials

#### 2.2 Inclusion criteria 1.

Trials were included if they enrolled individuals with planned PCI and randomly assigned patients to treatment with bivalirudin (using the approved dosing regimen) or heparin (mostly unfractionated heparin [UFH], but also low-molecularweight heparin) with or without a GPI. Trials that did not report clinical outcomes, involved fi brinolytics, were done before coronary stenting was available, or compared bivalirudin with anticoagulant regimens other than heparin or

**Bivalirudin** 

BMJ

low-molecular-weight heparin were excluded from the analysis.

#### 2.3 1. **Comparison assessed**

Expérimental Contrôle NCT00464087 Bivalirudin Heparin

Results 2.4 1.

> Heparin Major bleeding Study **Events Total Events Total** RR 95%-CI W(random)

New study NCT00464087

2.88

[0.12; 69.11]

#### 1.5%

Random effects model 2.88 [0.12; 69.11] 1.5% Heterogeneity: not applicable for a single study

# Original study ISAR-REACT 3 ARMYDA-7 BIVALVE2 BRIGHT (heparin alone) HEAT PPCI NAPLES III

70 22	289
2	198
4	729
32	905
14	418
11	725
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1.28

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[0.50; 0.90]	
[0.07; 1.67]	
[0.12; 1.13]	
[0.70; 1.89]	
[0.59; 2.78]	
38.6%	
5.5%	
9.7%	
27.7%	
17.0%	
Random effects model	
122 4539 160 4535	
0.79	
[0.52; 1.19]	
98.5%	
Heterogeneity: I–squared=47.2%, tau–squared=0.093, p=0.1082	2
Random effects model	
123 4590	
160 4584	

0.80

[0.54; 1.20]

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100%
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Heterogeneity: I-squared=39.3%, tau-squared=0.083, p=0.1435

0.1 0.51 2 10

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Favors Bivalirudin Favors Heparin
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Atorvastatin

# 1. **3** Systematic review ID **522**

# 2. **3.1** Title of the systematic review

The preventive effect of atorvastatin on atrial fibrillation : a meta-analysis of randomized controlled trials

## 1. 3.2 Inclusion criteria

Studies that met the following specified criteria :

- – comparison of atorvastatin with placebo or control treatment, regardless of the background therapy;
- randomized controlled human trials;
- – new-onset AF or recurrent AF in each group as an outcome.

## 1. 3.3 Comparison assessed

Expérimental Contrôle NCT00756886 Atorvastatin Placebo

## 1. 3.4 Results

Control Atrial fibrillation Study Events Total Events Total

95%-CI W(random) New study NCT00756886 Random effects model 6.00 [0.67; 53.68] Heterogeneity: not applicable for a single study **Original study** MIRACL 2004 Dernellis 2005 Chello 2006 Ozaydin 2006 ARMYDA-3 2006 Song 2008 Almroth 2009 Melina 2009

BMJ

OR

[0.67; 53.68]

6.00

1.9%

1.9%

93 1539

96 1548

0.97

9.4%

Tsai 2008

Ji 2009

Sun 2011

Spadaccio 2010

SToP AF 2011

[0.72; 1.31]

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	$ \begin{array}{c} 40\\ 20\\ 24\\ 99\\ 54\\ 62\\ 111\\ 317\\ 69\\ 25\\ 51\\ 31\\ 0.06\\ 0.33\\ 0.33\\ 0.17\\ 0.41\\ \end{array} $	106 23 4 21 26
21 22 23 24	0.27 0.39 0.70 0.85 0.33	
25 26 27	0.46 0.32 0.38 [0.02; 0.20]	
28 29	[0.06; 1.97] [0.04; 0.72]	
30	[0.23; 0.72] [0.07; 1.04]	
31	[0.15; 0.99]	
32 33	[0.41; 1.18] [0.61; 1.18]	
34	[0.14; 0.76] [0.08; 2.75]	
35	[0.13; 0.80]	
36 27	[0.12; 1.28]	
37 38	4.2% 2.6%	
39	3.4% 7.8%	
40	3.7%	
41 42	5.6% 8.0%	
42 43	9.2%	
44	6.1% 2.5%	
45	5.7%	
46	4.3% SPARCL 2011	
47 48	Demir 2011	
49	Baran 2012 Suleiman 2012	
50	Jiang 2013	
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55	122 2366	
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[0.89; 1.47] [0.51; 11.05] [0.01; 0.99] [0.42; 3.25] [0.15; 0.89] 9.6% 3.2% 1.9% 5.1% 5.8% Random effects model 514 4971 635 4981 [0.36; 0.70] 98.1% Heterogeneity: I-squared=72.3%, tau-squared=0.2675, p<0.0001

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### **Random effects model**

520 5001

0.51

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0.53 [0.38; 0.73]

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100%

Heterogeneity: I-squared=72.2%, tau-squared=0.2798, p<0.0001

0.1 0.51 2 10 Favors Atorvastatin Favors Control

#### Systematic review ID 607 1. 4

#### 2. 4.1 Title of the systematic review

The role of biological therapy in metastatic colorectal cancer (mCRC) after first-line treatment : a meta-analysis of randomised trials

#### 1. 4.2 Inclusion criteria

Studies included were registered RCTs evaluating second- or third line (or beyond) therapy for mCRC, which reported at least one of the following : OS, PFS, ORR and toxicity.

#### 1. 4.3 Comparison assessed

	Expériment al	Contrô le
NCT000631	Cetuximab+Irinoteca	Irinotec
41	n	an
NCT000618	Cetuximab+FOLFOX	FOLFOX
15	4	4

#### 1. Results 4.4

Study	TE	seT E	OS	HR	95%− Cl	W(fixe d)
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 BMJ

New study NCT00063141	-0. 03	0.067 6		0.98	[0.85; 1.11]	13 %
NCT00061815	0. 0 9	0.241 0		1.10	[0.68; 1.76]	
Fixed effect model	9			0.98	[0.87; 1.12]	14
Heterogeneity: I-squared=0%, ta	u–squai	red=0, p=0.	62		1.12]	/0
Original study 2010 Peeters Study 181	-0. 16	0.099 1	0.85	6 [0.70; 1.03]	6.4%	
2013 Seymour PICCOLO	0. 0 1	0.100 1	1.01	[0.83; 1.23]	6.2%	
2008 Amado	-0. 01	0.141 7	0.99	[0.75; 1.31]	3.1%	
2008 Karapetis CO17	-0. 60	0.149 9	0.55	6 [0.41; 0.74]	2.8%	
2007 Giantonio E3200	-0. 29	0.089	0.75	[0.63; 0.89]	7.9%	
2012 Arnold TML	-0. 22	0.078 9	0.81	[0.69; 0.94]	10.0%	
2012 Van Cutsem VELOUR	-0. 20	0.069 5	0.82	[0.71; 0.94]	12.9%	
2013 Masi BEBYP	-0. 28	0.172 1	0.76	[0.54; 1.06]	2.1%	
2011 Van Cutsem CONFIRM2	0. 0 0	0.073 5	1.00	[0.87; 1.15]	11.6%	
2012 Grothey CORRECT	-0. 26	0.094 3	0.77	[0.64; 0.93]	7.0%	
2012 Siu CO20	-0. 13	0.088 4	0.88	[0.74; 1.05]	8.0%	
2011 Watkins 10 mg dalo	0. 3 5	0.194 5	1.42	2 [0.97; 2.08]	1.7%	
2011 Watkins 7.5 mg Dalo	0. 1 4	0.191 6	1.15	6 [0.79; 1.67]	1.7%	
2012 Cohn conatumumab	-0. 12	0.254 9	0.89	[0.54; 1.47]	1.0%	
2012 Cohn conatumumab b	0. 2 4	0.262 0	1.27	[0.76; 2.12]	0.9%	
2013 Eng tivantinib	-0. 37	0.260 6	0.69	[0.42; 1.16]	0.9%	
2013 Eloehler sorafenib	0. 4 5	0.256 3	1.57	[0.95; 2.59]	1.0%	
Fixed effect model			0.87	[0.82; 0.91]	85.2%	
Heterogeneity: I-squared=59.6%, Fixed effect model Heterogeneity: I-squared=58.1%			0	.88 [0.84; 0.93] 10	00%	
	, <b>.</b>		0.5 1	2		
			Favors Biologic Favors Co			

# 2. **5.1** Title of the systematic review

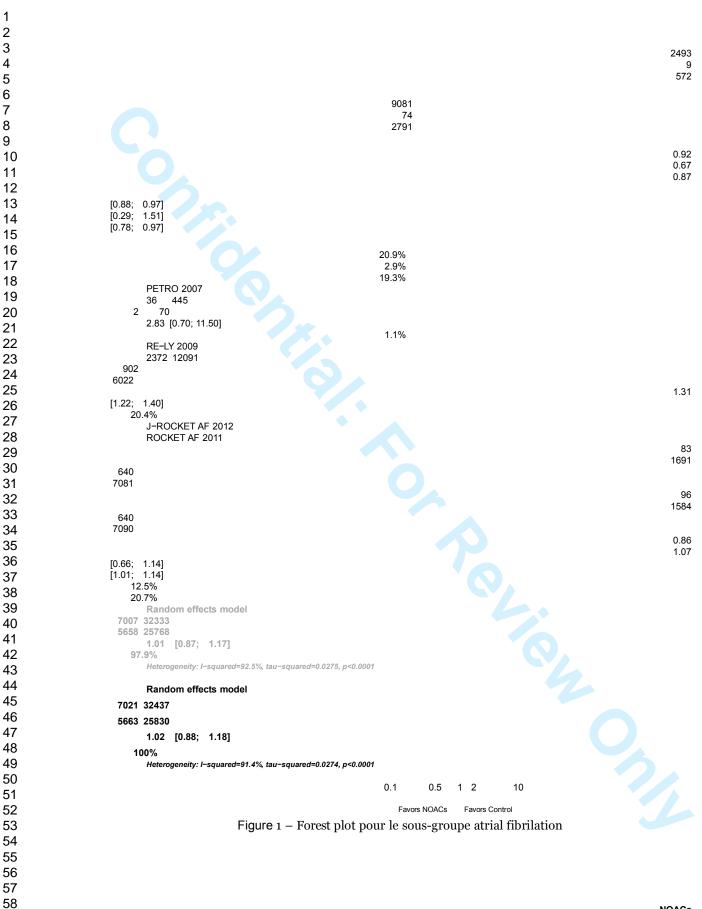
Treatment Discontinuations With New Oral Agents for Long-term Anticoagulation : Insights from a Meta-Analysis of 18 Randomized Trials Including 101 801 patients.

## BMJ

## 1. 5.2 Inclusion criteria

Studies included compared NOACs with conventional anticoagulants or placebo for the treatment of VTE/pulmonary embolism (PE), ACS, and stroke prevention in patients with AF. The included studies had to have at least 12 weeks of follow-up. Studies of orthopedic operations were not included. Both double-blind and open-label trials were eligible for inclusion.

5. 3	Comparison assessed		
		NOACs C	Contrô
	NCT01136408 Dabi Etexilate NCT008523 Apixa	gatran W 97 I aban I	Varfari n Placeb o
5. 4	Results		
			NOA
	Control Treatment D/C due to all cause Study Events Events		
ioui	RR 95%-CI W(random)		
	New study NCT01136408		
	14 104		
5	62		
			1.
[0.63;	4.41]		
14 5	62	2.1%	
	1.67 [0.63; 4.41] Heterogeneity: not applicable for a single study	2.1%	
	Original study ARISTOLE 2011 ARISTOLE J 2011 AVERROES 2011		23
			5



RR 95%-CI W(ra	andom)					
New study NCT00852397	2 2	9 9	1 1	52	1.05 [0.55; 1.99]	6
Random effects model	2 2	9 9	1	52	1.05 [0.55; 1.99]	6
Heterogeneity: not applicable for a	a single st	udy				
Original study APPRAISE 2009	4 8 0	110 4	8 4	611	3.16 [2.56; 3.90]	17 59
APPRAISE-2 2011	8 6 3	37 05	7 4 8	3687	1.15 [1.05; 1.25]	19 69
ATLAS ACS-TIMI 46 2009	3 4 7	18 23	1 4 9	907	1.16 [0.97; 1.38]	18 29
ATLAS ACS 2-TIMI 51 2012	2 9 1 4	103 50	13 55	5176	1.08 [1.02; 1.14]	19 89
RE-DEEM 2011	2 7 0	15 05	5 3	373	1.26 [0.96; 1.66]	16 29
Random effects model	4 8 7 4	184 87	23 89	10754	1.40 [1.08; 1.82]	91 49

Favors NOACs Favors Control

Figure 2 - Forest plot pour le sous-groupe acute coronary syndrome

# 1. 6 Systematic review ID1040

## 2. 6.1 Title of the systematic review

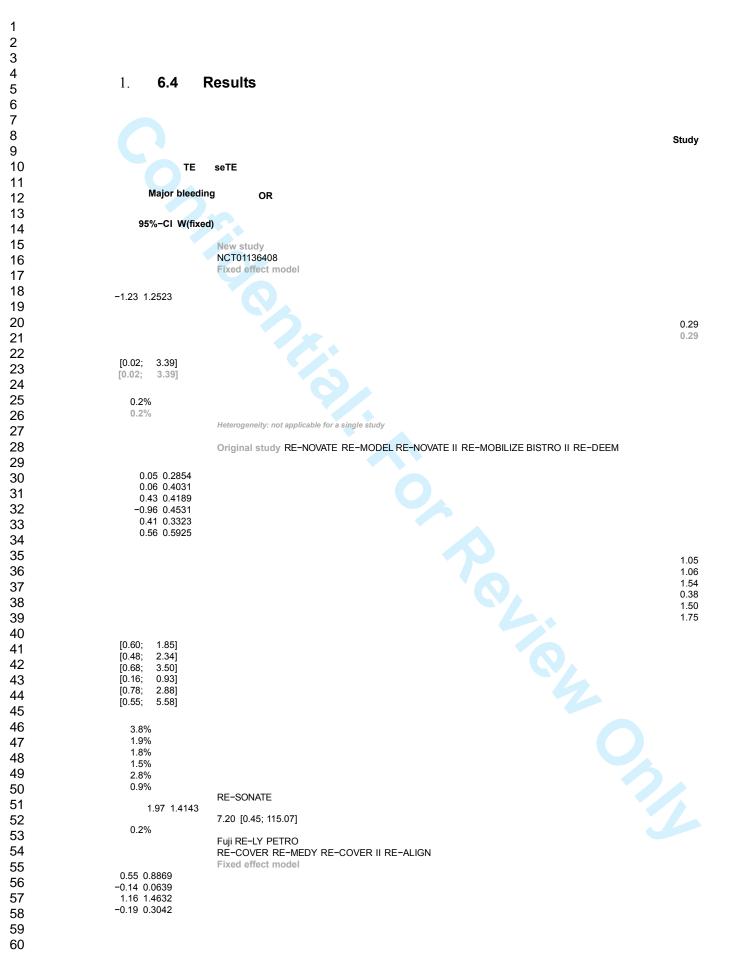
Dabigatran Etexilate and Risk of Myocardial Infarction, Other Cardiovascular Events, Major Bleeding, and All-Cause Mortality : A Systematic Review and Meta-analysis of Randomized Controlled Trials

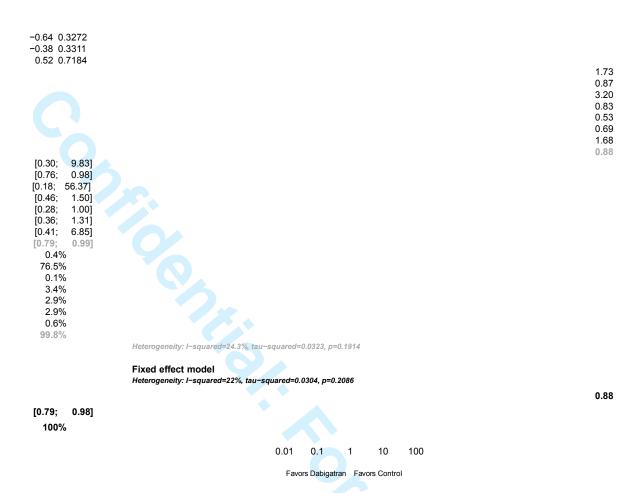
## 1. 6.2 Inclusion criteria

To be included in the meta-analysis, clinical trials should present the following criteria : (1) it should be an RCT and (2) the follow-up should have been the same between the different groups. In addition, (3) the control groups should receive a placebo or the reference treatment when applicable. This meant (3a) warfarin was the reference treatment in patients with NVAF and in the treatment of venous thromboembolism (VTE) or pulmonary embolism; (3b) enoxaparin was the reference treatment for the prevention of VTE events in patients undergoing total hip or knee surgery; and (3c) placebo was used for the prevention of recurrence of coronary events in patients receiving antiplatelet therapy or for the prevention of recurrence of VTE events in patients who had completed a first period of anticoagulant therapy.

## 1. 6.3 Comparison assessed

Expérimental Contrôle NCT01136408 Dabigatran Etexilate Warfarin





# 1. 7 Systematic review ID1164

# 2. **7.1** Title of the systematic review

S-1-based versus 5-FU-based chemotherapy as first-line treatment in advanced gastric cancer : a metaanalysis of randomized controlled trials

# 1. 7.2 Inclusion criteria

Studies meeting the following inclusion criteria were included :

- — patients suffering from histological confirmed, inoperable, advanced, or recurrent adenocarcinoma of the stomach or gastroesophageal junction at baseline;
  - phase II or phase III RCT;
- — trials comparing S-1-based with 5-FU-based regimens given as first-line palliative chemotherapy and not confounded by additional agents or interventions;
- if there were multiple articles based on similar patients, only the largest or the most recently article was included.

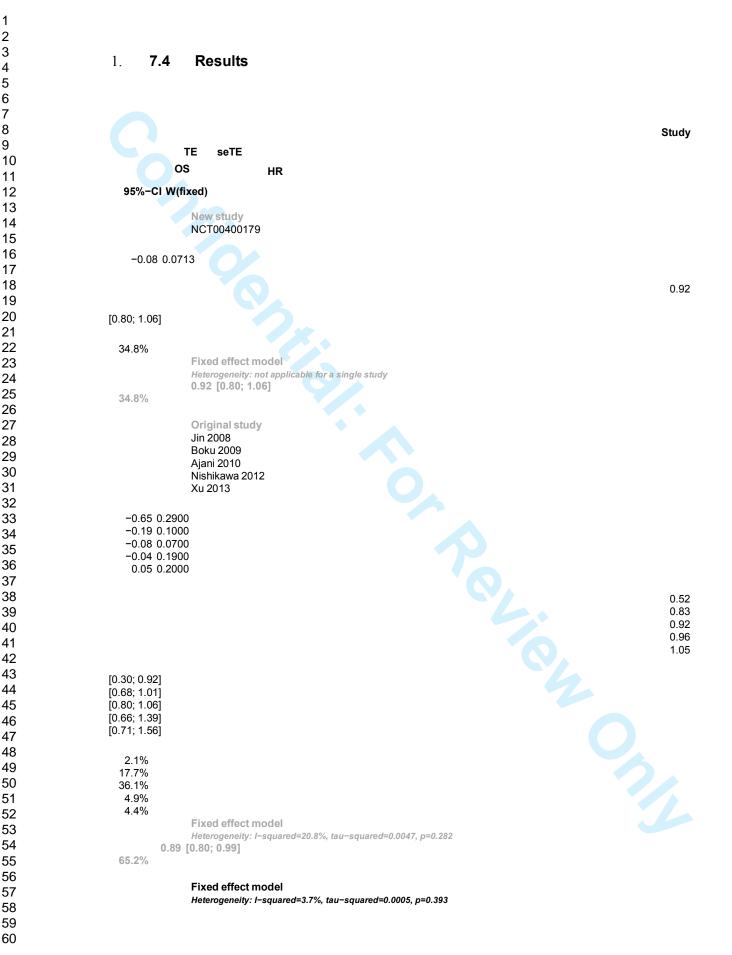
Exclusion criteria included the following :

- – letters, reviews, case reports, editorials, and expert opinion;
- — non-prospective trials.

# 1. 7.3 Comparison assessed

S-1-based regimen 5-FU-based regimen NCT00400179 S-1/Cisplatin 5-FU/cisplatin





BMJ

0.90 [0.83; 0.98]

100%

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0.5 1 2 Favors S-1 regimen Favors 5-Fu regimen

#### Systematic review ID1317 1. 8

#### 2. 8.1 Title of the systematic review

Meta-analysis of the efficacy and safety of long-acting non-ergot dopamine agonists in Parkinson's disease

#### 8.2 Inclusion criteria 1.

Trials were included in the study if they met all of the following criteria :

RCT,

- study participants were required to have a clinical diagnosis of PD,
- intervention therapies consisting of long-acting NEDA versus placebo,
- assessment of the efficacy data in the form of Unified Parkinson's Disease Rating Scale (UPDRS) scores, "off" time and/or "on" time without troublesome dyskinesia measured by patient diaries, tolerability data in the form of withdrawals, and safety data in the form of adverse events.

#### Comparison assessed 1. 8.3

events.		or withdrawais, and sate	ety data in
son assessed			
NCT00522379	Long-acting NEDA Rotigotine	Contrôle Placebo	
ting NEDA			
d)			

#### 1. 8.4 Results

Long acting NEDA

Placebo

UPDRS ALD Study

Total Mean

SD Total Mean SD 95%-CI W(fixed) MD

> New study NCT00522379

392 -1.97 4.37

105 -0.90 3.70

-1.07

[-1.90; -0.24]

16.1%

Fixed effect model 392 105 -1.07 [-1.90; -0.24]

	16.1%
	Heterogeneity: not applicable for a single study
	Original study
	Original study Jankovic 2007
	Poewe 2011
	LeWitt 2007
	Poewe 2007
	Pahwa 2007 Schapira 2011
	Trenkwalder 2011
	177 -0.39 3.46
	213 -2.10 3.35
	168 -3.15 5.26 204 -4.20 4.50
	197 -3.50 5.47
	161 -3.80 4.67
	178 -2.60 3.60
	96 0.92 3.43
	103 -0.20 3.37 92 -0.50 5.27
	101 -2.00 4.30
	184 -0.90 5.36
	174 -2.60 4.67
	89 -1.30 3.40
	-1.31
	-1.90
	-2.65
	-2.20
	-2.60 -1.20
	-1.30
	[-2.16; -0.46]
	[-2.69; -1.11] [-3.99; -1.31]
	-3.24; -1.16]
[	-3.69; -1.51]
l	[-2.18; -0.42]
	15.2%
	17.7%
	6.2%
	10.2%
	9.4% 11.1%
	14.2%
	Fixed effect model 1298
	839
	-1.77 [-2.13; -1.41] 83.9%
	Heterogeneity: I-squared=26%, tau-squared=0.0856, p=0.2306
	15.2%         17.7%         6.2%         10.2%         9.4%         11.1%         14.2%         Fixed effect model 1298         839         -1.77 [-2.13; -1.41]         83.9%         Heterogeneity: I-squared=26%, tau-squared=0.0856, p=0.2306         Fixed effect model 1690         944         -1.66 [-1.99; -1.32]         100%
	Fixed effect model 1690
	944
	-1.66 [-1.99; -1.32]
	100%

100%

Heterogeneity: I-squared=32.7%, tau-squared=0.1132, p=0.1673

-2 

0.69

BMJ

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Placebo

RR

44

17

[0.41; 1.16]

27.2%

44

17

27.2%

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11

13

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178

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Favors Long acting NEDA Favors Placebo Long acting NEDA Withdrawals due to AE Study **Events Total Events Total** 95%-CI W(fixed) New study NCT00522379 406 108 Fixed effect model 406 108 0.69 [0.41; 1.16] Heterogeneity: not applicable for a single study **Original study** PSG 2003 Jankovic 2007 Giladi 2007 Poewe 2011 LeWitt 2007 Poewe 2007 Pahwa 2007 Schapira 2011 Trenkwalder 2011 195 181 215 223 231 204 202 165 190 118 103 120 101 191

 BMJ

2.41

2.21

3.38

2.77 1.65

0.91

1.23

1.23

0.94

[0.58; 9.9	5]
[0.94; 5.2	0]
[1.47; 7.7	8]
[0.99; 7.7	
[0.87; 3.1	
[0.35; 2.3	
[0.55; 2.7 [0.46; 3.3	
[0.46, 3.3	
[0.30, 2.4	5]
3.3%	
8.0%	
7.9%	
5.5%	
14.7%	
8.1%	
10.4%	
6.8%	
8.1%	
	Fixed effect model
184 1	
58 1	
72.8%	1.76 [1.31; 2.35]
12.0/0	Heterogeneity: I-squared=3.9%, tau-squared=0.0084, p=0.4027
	Fixed effect model
228 2	2212
75 1	
75 1	
	1.47 [1.14; 1.89]
100%	
	Heterogeneity: I-squared=47.3%, tau-squared=0.1607, p=0.0473
	0.2 0.5 1 2 5
	0.2 0.3 1 2 3
	Favors Long acting NEDA Favors Placebo

# 1. 9 Systematic review ID1551

# 2. 9.1 Title of the systematic review

Biologic Therapies in Rheumatoid Arthritis and the Risk of Opportunistic Infections : A Meta-analysis

# 1. 9.2 Inclusion criteria

A randomized trial of a biologic agent was considered eligible if it fulfilled all of the following conditions :

- – randomized patients with RA,
  - randomized Food and Drug Administration ?approved biologic agents for treatment of RA,
- – compare the effect of a biologic agent with that of a control drug, and,
- – provided safety data to calculate ?1 outcome of interest.

The control arm included either placebo or disease-modifying antirheumatic drugs/conventional therapy. Low-dose corticosteroids (<10 mg equivalent to prednisolone) were permitted in all arms.

A study was considered ineligible if it included

Biologic

no data on OIs;

- compared different dosing, schemes, or routes of the same biologic agent;
- randomized 2 biologic agents;
  - or included agents not approved for RA.

#### 9.3 **Comparison assessed**

	D: 1	
	Biolog	Contrô
	ic	le
NCT000485	Abatace	Placeb
81	pt	0
NCT00048	Abatac	Place
932	ept Abatacept +	bo Placebo +
NCT00420	MTX	MTX
199	Abatace	Placeb
NCT00533	pt	0
897		
1. <b>9.4</b>	Results	
Control		
Ols		
Event	s	

#### 1. 9.4

1.

	Ols	Study
E Total Events	ivents Total OR 95%−CI W(fixed)	olduy
	New study NCT00048581 NCT00048932	
4 2	258 959	
3 133 2 482		
		0.67 0.47
[0.14; 3.24] [0.06; 3.80]		
5.9% 3.4%	10700/00/00	
1 0 23	NCT00420199 27	
0.9%	6.37 [0.12; 325.18] NCT00533897	
3 40 10 128		
8 80 13 71		0.74
[0.20; 2.75]	L	0.74
[0.31; 1.79 8.5%	]	

18.7%	Heterogeneity: I-squared=0%, tau-squared=0, p=0.7193	
	Original study Abe 2006 Durez 2004 Maini 1999	
	2 340	
0	47 15 88	
	4.35 [0.07; 290.79] 9.49 [0.18; 489.97] 3.53 [0.11; 109.40]	
0.8% 0.9% 1.2%	Schiff 2008	
5	St Clair 2004 Westhovens 2006 165	
4 4 0 0	722 721 110 282 363	5 40
10.00. 20		5.43 4.03 4.52
[0.89; 32 [0.45; 35 [0.56; 36 4.5% 3.1%	5.82]	
3.4%	Zhang 2006 Combe 2009 1 87	
	1 204 86 50	
1.0% 0.6%	7.30 [0.14; 368.15] 3.47 [0.03; 480.27]	
	Emery 2008 Kim 2012 0 265 3 197 263 103 5.77] 0.62] Lan 2004 O'Dell 2013 1 29 2 175 29 178 7 39 [0 15: 372 38]	
1 0	263 103	0.13
[0.00; 6 [0.42; 50 1.0%	5.77] 0.62]	4.63
2.6%	Lan 2004 O'Dell 2013 1 29	
0	1 29 2 175 29 478	
	178 7.39 [0.15; 372.38] 7.56 [0.47; 121.36]	
1.0% 1.9%	Smoen 2013	

Bejarano 2008 0.17 0.13 [0.04; 0.851 [0.01; 2.10] 5.8% 1.9% Breedveld 2006 4.37 [0.07; 290.06] 0.8% Chen 1008 4.21 [0.41; 42.99] 2.7% Furst 2003 7.39 [0.15; 372.38] 1.0% Kavanaugh 2013 Keystone 2004 [0.12; 3.89] [0.39; 49.69] 4.7% 2.5% Kim 2007 7.17 [0.14; 361.27] 1.0% Takeuchi 2013 Choy 2012 Keystone 2008 Smolen 2009 [0.00; 6.50] [0.38; 9.55] [0.40; 31.32] [0.40; 31.31] 1.0% 5.6% 3.1% 3.1% Weinblatt 2012 Emery 2009 3.49 [0.11; 112.21]

1.2% 0.7% 0 155	3.80 [0.04; 348.87] Smolen 2012 306	4.53
0 121 0.7% 0	3.84 [0.04; 341.61] Kremer 2005 Kremer 2006 Weinblatt 2006 Genovese 2008 Jones 2010 220	
0 4		0.06 1.01 0.05 4.56
[0.00; 3.52] [0.09; 11.15] [0.00; 0.91] [0.57; 36.23] [0.33; 4.64] 0.9% 2.5% 1.7% 3.4% 8.4%	Kremer 2011 Nishimoto 2004	1.24
1 0 393 0 53 0 204	109 418	
0.8% 0.8% 0.8% 1 249	Tak 2012 2 499	
[0.09; 11.05] 2.5% 75 13368 23 6864	Fixed effect model	1.00
[1.17; 2.74] 81.3%	Heterogeneity: I–squared=2.9%, tau–squared=0.0527, p=0.4191	1.79

Fixed effect model

85 14652

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36	7582	
[1.04; 100%	2.23]	
100%		Heterogeneity: I-squared=3.8%, tau-squared=0.062, p=0.4025
		0 0.1 1 10 1000
		Favors Biologic Favors Control

# 1. **10** Systematic review ID1580

## 2. **10.1** Title of the systematic review

Safety and efficacy of addition of VEGFR and EGFR-family oral small-molecule tyrosine kinase inhibitors to cytotoxic chemotherapy in solid cancers : A systematic review and meta-analysis of randomized controlled trials

## 1. 10.2 Inclusion criteria

Clinical trials that met the following criteria were included :

- – phase II and III trials in patients with solid cancers;
- — random assignment of participants to treatment with chemotherapy plus VEGFR or EGFR-targeted TKI or chemotherapy alone;
- — reporting data for at least one of the safety or efficacy outcomes.

## 1. **10.3 Comparison assessed**

		TKI	Contrôle
NCT00447057	Pemetrexed + Pemetrexed N Paclitaxel + La	CT00486954	
	Paclitaxel		

## 1. 10.4 Results

Control

ткі

Study

Fatai	adverse	event

Events Tot RR 9	al Eve 5%-Cl							
New study NCT00447057	2	10 2	1	102	2.00	[0.18; 21.71]	0. 8 %	
NCT00486954	0	13 1	1	129	0.33	[0.01; 7.98]	0. 4 %	
Random effects model	2	23 3	2	231	1.05	[0.15; 7.07]	1. 2 %	
Heterogeneity: I-squared=0	%, tau−sq	uared=0,	p=0.373	1				
Original study								

1.52

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of	85			

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Spano 2008	1	6	0	31	1.38	[0.06;	
		8	Ū	01	1.00	32.93]	
Kindler 2011	5	30	2	308	2.52	[0.49;	
		5				12.91]	
Rugo 2011	1	11	0	56	1.52	[0.06;	
		1				36.72]	
Hauschild 2009	4	13	0	134	9.00	[0.49; 165.53]	
		4				. , .	
Scagliotti 2010	1	46	4	459	3.22	[1.06;	
	3	3				9.81]	
Abou-Alfa 2010	2	4	2	49	1.04	[0.15;	
	-	7	-	-10	1.04	7.10]	
Maline 2014				54	1.04	10.00.	
Molina 2011	3	4 9	3	51	1.04	[0.22; 4.91]	
						-	
Baselga 2012	0	11 2	2	112	0.20	[0.01; 4.12]	
						-	
Paz-Ares 2012	5	38	2	384	2.49	[0.49;	
		5				12.77]	
Goncalves 2012	1	5	6	52	2.08	[0.85;	
	2	0				5.12]	
Flaherty 2012	9	39	1	397	0.91	[0.37;	
		3	0		•	2.21]	
Schwartzberg 2012	1	7	0	77	2.92	[0.12;	
conna.a		9	Ŭ			70.70]	
Gradishar 2012	9	11	3	118	3.08	[0.85;	
	9	5	5	110	3.00	11.08]	
Crown 2010	1	21 7	9	215	1.54	[0.68; 3.48]	
Bergh 2012	2	29 5	0	293	4.97	[0.24; 103.00]	
		5					
Heist 2012	4	4	0	41	9.00	[0.50; 161.92]	
		1					
Carrato 2013	1	38	4	379	2.96	[0.96;	
	2	4				9.10]	
Heymach 2007	4	8	2	41	0.95	[0.18;	
		6				5.00]	
Heymach 2008	4	5	0	52	8.36	[0.46; 151.61]	
-,		6	-		0.00		
Herbst 2010	4	68	3	690	1.11	[0.72;	2
	2	9	8			1.69]	7
Boer 2010	0	3 3	1	29	0.29	[0.01; 6.93]	
		3					
de Boer 2011	1	26	1	273	1.22	[0.58;	
	4	0	2			2.60]	
Choueiri 2011	1	7	0	72	3.09	[0.13;	
		0				74.47]	
Herbst 2005	3	20	1	208	2.19	[1.23;	1
	3	9	5			3.91]	8
Gatzemeier 2007	8	58 0	1	579	7.99	[1.00; 63.65]	
						-	
Moore 2007	6	28 2	0	280	12.91	[0.73; 228.04]	
		2					
Mok 2009	1	7	2	79	0.53	[0.05;	

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5.76]

[0.21;

87.63]

[0.68:

4.79]

[0.18;

5.42]

[0.64:

15.17]

[0.84;

18.23]

[0.18;

2.15]

[1.32;

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[0.27; 111.88]

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Random effects model Heterogeneity: I-squared=0%		9 7481 uared=0, j			1.62
Heterogeneity: I–squared=0%	s, tau−sq	uared=0, j	o=0.600	1	
mouol	7	0	6		
Random effects model	2 4	724 8	1	6755	1.63
Cameron 2010	4	20 7	6	191	0.62
Di Leo 2009	8	29 3	2	286	3.90
Argiris 2013	6	12 4	2	129	3.12
Herbst 2004	4	68 4	2	341	1.00
Mok 2012	1	22 6	6	222	1.80
Stinchcombe 2011	2	5 1	0	44	4.32
Pawel 2011	2	7 6	0	83	5.46
		4			

# 1. 11 Systematic review ID2054

# 2. **11.1 Title of the systematic review**

Pharmacological treatment of neuropsychiatric symptoms in Alzheimer's disease : a systematic review and meta-analysis

# 1. 11.2 Inclusion criteria

Trials were selected for inclusion if they met all of the following criteria :

- – double-blind, placebo controlled, randomised controlled trials (RCTs);
- — the design of the trial was either parallel or crossover ; for a crossover trial, it had a washout period greater than 1 week;
- — patients enrolled were diagnosed as probable or possible AD according to the Diagnostic and Sta- tistical Manual of Mental Disorders ?Fourth Edition or the criteria of the National Institute of Neurological and Communicative Disorders and Stroke/Alzheimer ?s Disease and Related Disor- ders Association;
- – studies compared any medicine at any dose with placebo, with any treatment durations;
- neuropsychiatric outcomes were measured with the most common neuropsychiatric scales Neu- ropsychiatric Inventory (NPI) (NPI-10 or NPI-12) or Neuropsychiatric Inventory-Nursing Home version (NPI-NH).

# 1. **11.3 Comparison assessed**

	Medici	Placeb
	ne	0
NCT014380	Aripiprazole	Placeb
60	Valpro	0
NCT00071	ate SAM-531 OR	Place
721	Donepezil	bo
NCT00895	Rosiglitazone +	Place



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	895DonepezilboNCToo348Rosiglitazone + Placebo
	1. 11.4 Results
)	ChEls
2	Placebo
3	NPI Total Score
1	Study
	Total Mean SD Total Mean SD
7	MD 95%-CI W(random)
3	New study NCT00895895-Donepezil Random effects model
)	102
	102
2	9.30 12.90
3	
1	96 10.70 14.40
5	96
3	
7	-1.40
3	
	[-5.22; 2.42]
)	[-5.22; 2.42]
)	5.2% 5.2% Heterogeneity: not applicable for a single study
- 3	5.2% 5.2%
1	Heterogeneity: not applicable for a single study
5	onginal otaa)
6	Black 2007
7	176 -1.91 16.45
3	167 -3.31 16.56
)	
)	1.40
)	[-2.09; 4.89]
- 3	
1	5.7% Brodaty 2005
5	326 -0.90 11.36
6	320 0.60
7	9.96
3	-1.50 [-3.15; 0.15]
)	10.0% Courtney 2004
)	283 -4.80 10.30
	283 -6.70 10.30 1.90
<u> </u>	
) 1	9.8% Feldman 2001
t 	144 -4.60 13.30 146
, ,	1.00 13.30
7	-5.60 [-8.66; -2.54]
3	6.6% Holmes 2004
)	

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41 -2.90 10.24 55 3.30 15.57 -6.20 [-11.37; -1.03] 3.5% Howard 2007 128 -3.56 17.73 131 -3.78 17.75 0.22 [-4.10; 4.54] 4.5% Johannsen 2006 99 -2.08 Sential: for perien only 8 92 103 0 79 8.96 -2.87 [-5.34; -0.40] 7.9% Kaufer 1998 273 0.83 10.41 135 3.84 10.41 -3.01 [-5.16; -0.86] 8.7% Lyketsos 2004 0 0.00 0.00 0.00 0 0.00 0.00 0.0% Morris 1998 273 1.15 10.83 135 3.90 10.83 -2.75 [-4.98; -0.52] 8.5% Raskind 1999 0 0.00 0.00 0 0.00 0.00 0.00 0.0% Rockwood 2001 261 -0.30 10.87 125 0.50 7.21 -0.80 [-2.63; 1.03] 9.5% Tariot 2000 692 0.42 11.87 286 2.00 11.30 -1.58 [-3.16; 0.00] 10.1% Tariot 2001 Winbald 2006 103 -2.30 19.28 128 -3.80 12.45 105 -4.90 19.50 120 -2.10 12.05 2.60 -1.70 [-2.67; 7.87] [-4.75; 1.35] 3.4% 6.6% Random effects model 2927 2111 -1.52 [-2.72; -0.33] 94.8% Heterogeneity: I-squared=66.4%, tau-squared=2.868, p=0.0004

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2020	nodel				
3029 2207					
-1.51 [-2.65; -0	.381				
100%	uared=63.6%, tau-squared	t=2.655, p=0.0007			
			-10 -5 0 5	5 10	
			Favors Medicine Favors		
	Fi	gure 3 – Forest p	lot pour le sous	-groupe ChEIs	
	Atypical antipsychol	tic			
	, ajpion anneojono.				
Placebo					
NPI Total Sco Study	ore				
Study Total					
Mean SD Total					
Mean SD SMD					
95%-CI W(rando	m)				
New study NCT01438060					
Random effects n	nodel				
103 -11.20 23.84					
103					
103					
100					
100					
100 100 -9.75 23.70					
100 100					
100 100 -9.75 23.70 -0.06					
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21]					
100 100 -9.75 23.70 -0.06 -0.06					
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0%					
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% 9.0%	oplicable for a single study				
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% 9.0% Heterogeneity: not ep	plicable for a single study		0	0	
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% 9.0%	520 -16.13	129 -13.70 20.30	-0.14	[-0.34; 0.05]	18.
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% Heterogeneity: not ap Original study	520 -16.13 15.94 106 -11.20	102 -9.75	-0.14 -0.08	[-0.34; 0.05] [-0.35; 0.20]	3% 9.
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% 9.0% Heterogeneity: not ap Original study De Dyen 2004 De Dyen 2005	520 -16.13 15.94 106 -11.20 18.81	102 -9.75 18.81	-0.08	[-0.35; 0.20]	3% 9. 2 %
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% <i>9.0%</i> <i>Heterogeneity: not ap</i> Original study De Dyen 2004 De Dyen 2005 Mintzer 2007	520 -16.13 15.94 106 -11.20 18.81 366 -15.90 18.18	102 -9.75 18.81 121 -13.00 16.40	-0.08 -0.16	[-0.35; 0.20]	3% 9. 2 % 16. 1%
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% 9.0% Heterogeneity: not ap Original study De Dyen 2004 De Dyen 2005	520 -16.13 15.94 106 -11.20 18.81 366 -15.90	102 -9.75 18.81	-0.08	[-0.35; 0.20]	3% 9. 2 % 16. 1% 6. 4
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% <i>Heterogeneity: not ap</i> Original study De Dyen 2004 De Dyen 2005 Mintzer 2007 Street 2000	520 -16.13 15.94 106 -11.20 18.81 366 -15.90 18.18 159 -6.23 7.24	102 -9.75 18.81 121 -13.00 16.40 47 -3.70 10.30	-0.08 -0.16 -0.31	[-0.35; 0.20] [-0.37; 0.04] [-0.64; 0.01]	3% 9. 2 % 16. 1% 6. 4 %
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% 9.0% Heterogeneity: not ar Original study De Dyen 2004 De Dyen 2004 De Dyen 2005 Mintzer 2007 Street 2000 Streim 2008	520 -16.13 15.94 106 -11.20 18.81 366 -15.90 18.18 159 -6.23 7.24 131 -16.43 17.32	102 -9.75 18.81 121 -13.00 16.40 47 -3.70 10.30 125 -10.01 18.83	-0.08 -0.16 -0.31 -0.35	[-0.35; 0.20] [-0.37; 0.04] [-0.64; 0.01] [-0.60; -0.11]	3% 9. 2 % 16. 1% 6. 4 % 11. 2%
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% <i>Heterogeneity: not ap</i> Original study De Dyen 2004 De Dyen 2005 Mintzer 2007 Street 2000	520 -16.13 15.94 106 -11.20 18.81 366 -15.90 18.18 159 -6.23 7.24 131 -16.43	102 -9.75 18.81 121 -13.00 16.40 47 -3.70 10.30	-0.08 -0.16 -0.31	[-0.35; 0.20] [-0.37; 0.04] [-0.64; 0.01]	3% 9. 2 % 16. 1% 6. 4 % 11. 2% 9. 3
100 100 -9.75 23.70 -0.06 -0.06 [-0.34; 0.21] [-0.34; 0.21] 9.0% 9.0% Heterogeneity: not ar Original study De Dyen 2004 De Dyen 2004 De Dyen 2005 Mintzer 2007 Street 2000 Streim 2008	520 -16.13 15.94 106 -11.20 18.81 366 -15.90 18.18 159 -6.23 7.24 131 -16.43 17.32 85 -11.60	102 -9.75 18.81 121 -13.00 16.40 47 -3.70 10.30 125 -10.01 18.83 142 -4.20	-0.08 -0.16 -0.31 -0.35	[-0.35; 0.20] [-0.37; 0.04] [-0.64; 0.01] [-0.60; -0.11]	3% 9. 2 % 16. 1% 6. 4 % 11. 2% 9.

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-0.21 [-0.29; -0.12] 91.0%  $Heterogeneity: {\it I-squared=0\,\%, tau-squared=0, p=0.5898}$ Random effects model 1664 -0.19 [-0.28; -0.11] 100% Heterogeneity: I-squared=0%, tau-squared=0, p=0.5862 -0.6-0.4-0.2 0 0.2 0.4 0.6 Favors Medicine Favors Placebo Figure 4 – Forest plot pour le sous-groupe Atypical antipsychotic Antidepressant Placebo **NPI Total Score** Study Total Mean SD Total Mean SD MD 95%-CI W(random) New study NCT00895895-SAM531 293 10.66 12.5 10.7 14.4 -0.04 [-3.26; 3.18] 54.8% Random effects model -0.04 [-3.26; 3.18] 54.8% Heterogeneity: not applicable for a single study **Original study** Finkel 2004 124 -4.70 17.6 -6.5 12.0 1.80 [-1.97; 5.57] 39.9% Lyketsos 2003 Random effects model 24 -8.90 17.5 -3.7 17.5

Page 71 of 85

1	
2	
3	
	-5.20 [-15.58; 5.18]
4	0.04 [-5.91; 5.99]
5	5.3%
6	45.2%
7	Heterogeneity: I-squared=35.2%, tau-squared=8.614, p=0.2143
	Random effects model
8	441
9	
10	236
11	0.42 [-1.96; 2.80]
12	100%
13	Heterogeneity: I-squared=0%, tau-squared=0, p=0.4235
14	-15 -10 -5 0 5 10 15
15	
16	Favors Medicine Favors Placebo
17	Figure 5 – Forest plot pour le sous-groupe Antidepressant
18	Figure 3 Forest piot pour le sous groupe finitalepressuit
19	
20	
21	
22	
23	Mood stabilizers
24	
25	Placebo
26	Tracebo
27	NPI Total Score
	Study
28	Total Mean
29	SD Total Mean SD
30	Total Mean SD Total Mean SD MD 95%-CI W(random) New study NCT00071721 Random effects model 86 8.3 10.80 86 78 8.20 78
31	
32	New study
	NCT00071721 Random effects model
33	
34	
35	86 8.3 10.80 86
36	00
37	70 0.00
	78 8.20 78
38	10
39	
40	9.80
41	
42	0.10
	0.10
43	
44	[-3.05; 3.25]
45	[-3.05; 3.25]
46	
	57.3%
47	57.3%
48	Heterogeneity: not applicable for a single study
49	Original study Herrmann 2007 Random effects model
50	
51	44 495 4939
	14 12.5 18.39 14
52	78 8.20 78 9.80 0.10 0.10 [-3.05; 3.25] 57.3% Heterogeneity: not applicable for a single study Original study Herrmann 2007 Random effects model 14 12.5 18.39 14 13 -5.77 18.52 13 18.27
53	12 -5 77 19 52
54	13 -5.77 18.52 13
55	14
56	10.07
57	18.27
58	
59	
60	

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[4.34; 32.20] [4.34; 32.20]				
42.7% 42.7% Heterogeneity: not applicable for a single study Random effects model				
7.87 [-9.75; 25.48]				
100%				
Heterogeneity: I–squared=83.9%, tau–squared=138.5, p=0.0127				
	-30 -20 -10	0 10	20	30
	Favors Medicine	Favors P	lacebo	
Figure 6 Forest plat now	r la coura group	o Moor	d atak	, iliza

Figure 6 – Forest plot pour le sous-groupe Mood stabilizers

# 1. **12** Systematic review ID2086

# 2. **12.1** Title of the systematic review

The long-term efficacy and safety of DPP-IV inhibitors monotherapy and in combination with metformin in 18 980 patients with type-2 diabetes mellitus a meta-analysis

## 1. **12.2 Inclusion criteria**

Studies were deemed eligible for inclusion in pooled analysis if they met the following criteria :

- — were phase 3 or later, prospected and randomized controlled trials of  $\geq 24$  weeks' duration,
- – enrolled adult patients with T2DM,
- — were comparing DPP-IV inhibitors with placebo, DPP-IV inhibitors +metformin with metformin and DPP-IV inhibitors + metformin with sulphonylureas + metformin and
- – have at least 50 subjects in every arm of the studies.

# 1. **12.3 Comparison assessed**

	Experimental	Contr
		ol
NCT000875	Sitagliptin	Placeb
16		0
NCT000998	Vildagliptin	Placeb
92		0
NCT000999	Vildagliptin	Placeb
05		0
NCT0010171	Vildagliptin	Placeb
2		0
NCT001216	Saxagliptin	Placeb
41		0
NCT003056	Sitagliptin	Placeb
04		0
NCT003160	Saxagliptin	Placeb
82		0
NCT003639	Sitagliptin	Placeb
48	~ <b>.</b>	0
NCT003963	Vildagliptin	Placeb
57		0
NCT006465	Vildagliptin	Placeb
42		0
NCT006989	Saxagliptin	Placeb
32		0

NCT007283	Vildagliptin	Placeb
51		0
NCT008139	Sitagliptin	Placeb
95		0
NCT008602	Vildagliptin or	Placeb
88	Sitagliptin	0
NCT009188	Saxagliptin	Placeb
79		0
NCT010235	Alogliptin alone or in combination with	Metformin or
81	metformin	Placebo
NCT010760	Sitagliptin alone or in combination with	Metformin or
88	metformin	Placebo
NCT0112815	Saxagliptin	Placeb
3		0
NCT011948	Linagliptin	Placeb
30		0
NCT012142	Linagliptin	Placeb
39		0
NCT012150	Linagliptin	Placeb
97		0

#### 1. 12.4 Results

ΤE seTE

HbA1c

95%-CI W(random)

New study NCT00087516 NCT00099892 NCT00099905 NCT00101712 NCT00121641 NCT00305604 NCT00316082 NCT00363948 NCT00396357 NCT00646542 NCT00698932 NCT00728351 NCT00813995 J112o . NCT00860288 NCT00918879 NCT01023581 NCT01076088 NCT01128153 NCT01194830 NCT01214239 NCT01215097

Random effects model

MD

-0.87	[-1.02; -0.72]
-0.90	[-1.14; -0.66]
-0.52	[-0.81; -0.23]
-0.28	[-0.45; -0.11]
-0.67	[-0.90; -0.44]

Study

	BWJ	
	$\begin{array}{llllllllllllllllllllllllllllllllllll$	
3.0% 2.7% 2.5% 3.0% 2.8% 2.4% 2.5% 3.2% 2.9% 2.9% 2.9% 2.8% 3.2% 2.8% 3.2% 2.6% 3.0% 2.8% 1.9% 2.8% 3.0% 58.3%		
-0.69 0. -0.60 0. -0.30 0. -0.52 0. -0.38 0. -0.40 0.0 -0.50 0.	0151 1409 0991 1114 0846	
-0.64 0.0 -0.82 0.0 -0.50 0.0	$\begin{array}{cccc} -0.69 & [-0.86; -0.52] \\ -0.60 & [-0.63; -0.57] \\ -0.30 & [-0.58; -0.02] \\ -0.52 & [-0.71; -0.33] \\ -0.38 & [-0.60; -0.16] \\ -0.40 & [-0.57; -0.23] \\ -0.50 & [-0.78; -0.22] \\ -0.64 & [-0.78; -0.50] \\ -0.82 & [-1.01; -0.63] \end{array}$	

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-0.82 [-1.01; -0.63]

41

42 43

44 45

46

47

48

49

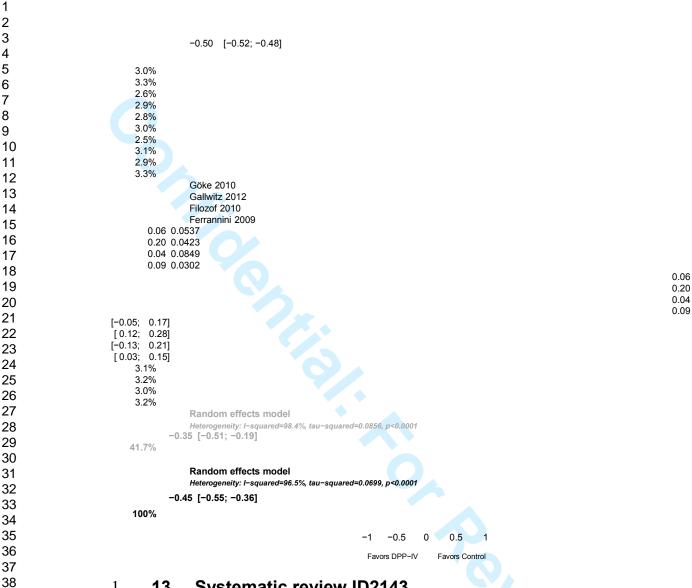
50 51

52

53 54

55

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#### 13 Systematic review ID2143 1.

#### 2. 13.1 Title of the systematic review

Systematic review and meta-analysis of ustekinumab for moderate to severe psoriasis

#### 1. 13.2 Inclusion criteria

Firstly, the RCTs had to include patients with a proven diagnosis of plaque psoriasis for at least 6 months. Exclusion criteria for patients included known malignancy (except treated basal cell skin cancer or squamous cell skin cancer of at least 5 years duration) or recent serious systemic or local infection. Exclusion criteria for controls included systemic use of corticosteroids, immunosuppressants or agents specifically targeting IL-12 or IL-23 with a withdrawal time of < 2 weeks. Thirdly, articles lacking original data for meta-analysis and review articles were excluded.

#### 13.3 Comparison assessed 1.

Expérimental Contrôle NCT01008995 Ustekinumab Placebo



### 1. **13.4 Results**

	Ustekinumab 45 mg	
Pla	PASI75 Study Events Total Events Total RR 95%-CI W(fixed)	
	New study NCT01008995 Fixed effect model	
132 132		
160 160		
18 18		7.42 7.42
[ 4.78; [ 4.78;	11.54] 11.54]	1.74
37.69 37.69	% Heterogeneity: not applicable for a single study Original study Igarashi 2012	
	Krueger 2007 Leonardi 2008 Papp 2008 Tsai 2011	
		38 33 171 273 41
64 64 255 409 61		
2 1 8 15 3	410	
	33.00 21.38	9.20

18.24					
13.44					
[ 2.37; 35.70] [ 4.65; 234.05]					
[10.75; 42.50]					
[ <mark>11</mark> .05; <b>30</b> .12]					
[4.40; 41.07]					
5.7% 2.1%					
16.8%					
31.5%					
6.4% Fixed effect model					
556					
853					
29 820					
18.28 [12.76; 26.17] 62.4%					
Heterogeneity: I-squared=0%, tau-squared=0, p=0.7682					
Fixed effect model					
688 1013					
47 982					
14.20 [10.72; 18.81]					
100%					
Heterogeneity: I–squared=57.3%, tau–squared=0.1919, p	=0.0388				
	0.01	0.1	1	10	100
	Favor	s Placeb	o Favo	ors Uste	kinumab

#### Systematic review ID2193 1.

#### 2. 14.1 Title of the systematic review

Efficacy and toxicity of adding cetuximab to chemotherapy in the treatment of metastatic colorectal cancer : a meta-analysis from 12 randomized controlled trials

#### 1. 14.2 Inclusion criteria

Studies that met the following criteria were considered for inclusion :

- randomized controlled trials;
- the study population of patients aged  $\geq 18$  years;
- eligible patients with histologically or cytologically confirmed mCRC;
- randomized allocation to cetuximab plus chemotherapy group or chemotherapy group;
- results reported data on efficacy and safety.

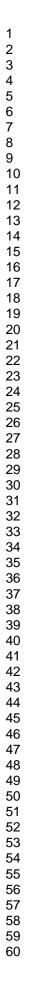
Reports were excluded from the final analysis if they described studies with a single-arm design or randomized controlled trials that assigned cetuximab into the two treatment arms.

#### 1. 14.3 Comparison assessed

Expérimental Contrôle NCT00061815 Cetuximab+FOLFOX4 FOLFOX4

#### 1. 14.4 Results

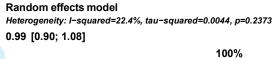
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						Study
	TE OS	seTE				
95%-CI \		(m)	HR			
	New st	udy 061815				
						1.10
[0.68; 1.76]	Heterog	m effects r eneity: not a 0.68; 1.76]	nodel aplicable for a single stu	3.5% dy 3.5%		
	Tol Salt	z Tveit	rner Stintzing yer Van Cutsem Sob	rero		
-0.1 0.1 0.2 0.0 -0.6 0.0 -0.1	27 0.370 5 0.229 4 0.107 25 0.174 16 0.124 13 0.368 11 0.127 3 0.066 12 0.068	3 1 0 1 0 1 7				0.76 0.86 1.15 1.29 1.06 0.53 1.01 0.88 0.98
[0.37; 1.57] [0.55; 1.35] [0.93; 1.42] [0.92; 1.81] [0.83; 1.35] [0.26; 1.09] [0.79; 1.30] [0.77; 1.00] [0.86; 1.12]						
				1.5% 3.8% 13.6% 6.2% 10.9% 1.6% 10.5% 24.4% 23.9%		

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Random effects model Heterogeneity: I-squared=29.6%, tau-squared=0.006, p=0.1821 0.99 [0.90; 1.09] 96.5%



0.5 

Favors Cetux + Chemo Favors Chemo

#### 1. Summary

Systemat	Proporti	Summ	statistic	Change	Direction
ic	on	ary		in	of
Review	of			summ	change
	patients			ary	
	added in			statist	
			With new studies	ic (%)	
		Without new studies	with new studies		
474	5	RR 0.83 [0.74; 0.93]	RR 0.85 [0.76; 0.94]	13	More
7/7	5	101030 [01/4, 0195]	101010 [01/03 0194]	10	harm
497	1	RR 0.79 [0.52; 1.19]	RR 0.80 [0.54; 1.20]	5	More
127	_			0	harm
522	1	OR0.51[0.36;0.70]	OR 0.53 [0.38; 0.73]	6	Decrease
607	19	HR 0.87 [0.82; 0.91]	HR 0.88 [0.84; 0.93]	8	Decrease
784a	0	RR 1.01 [0.87; 1.17]	RR 1.02 [0.88; 1.18]	99	More
, <b>.</b>		2 , , , , , ,			harm
784b	1	RR 1.40 [1.08; 1.82]	RR 1.37 [1.06; 1.75]	6	Less harr
1040	0	OR 0.88 [0.79; 0.99]	OR 0.88 [0.79; 0.98]	0	No chang
1164	51	HR 0.89 [0.80; 0.99]	HR 0.90 [0.83; 0.98]	10	Decrease
1317	23	MD -1.77 [-2.13; -1.41]	MD -1.66 [-1.99; -1.32]	6	Decrease
1317b	17	RR 1.76 [1.31; 2.35]	RR 1.47 [1.14; 1.89]	32	Less harr
1551	10	OR 1.79 [1.17; 2.74]	OR 1.52 [1.04; 2.23]	28	Less harr
1580	3	RR 1.63 [1.32; 2.01]	RR 1.62 [1.32; 2.99]	1	Less harr
2054a	12	MD-1.52[2.72;-0.33]	MD -1.42 [-2.50;	•7	Decrease
			-0.34]		
2054b	8	SMD -0.21 [-0.29;	SMD -0.19 [-0.28;	10	Decrease
		-0.12]	-0.11]		
2054c	135	MD 0.04 [-5.91; 5.99]	MD0.42[-1.96; 2.81]	950	Decrease
2054d	607	MD 18.27 [4.34;	MD 7.87 [-9.75;	57	Increase
		32.20]	25.48]		
2086	112	MD -0.35 [-0.51;	MD -0.45 [-0.55;	29	Increase
		-0.19]	-0.36]		
2143	19	RR 18.28 [12.76; 26.17]	RR 14.20 [10.72;	9	Decrease
			18.81]		
2193	2	HR 0.99 [0.90; 1.09]	HR 0.99 [0.90; 1.10]	0	No chang

#### 1. Tableau publication

2193	2	HR 0.99 [0.90; 1.09]	HR 0.99 [0.90; 1.10]	0	No change
1. <b>16</b>	Tablea	au publication			
Systemat ic Review	Proporti on of patients added in	Summ ary	statistic	Change in summ ary statist	Direction of change

			With new studies	ic (%)	
		Without new studies			
474	5	RR 0.83 [0.74; 0.93]	RR 0.85 [0.76; 0.94]	13	More harm
497	1	RR 0.79 [0.52; 1.19]	RR 0.80 [0.54; 1.20]	5	More harm
522	1	OR 0.51 [0.36; 0.70]	OR 0.53 [0.38; 0.73]	6	Decrease
607	19	HR 0.87 [0.82; 0.91]	HR 0.88 [0.84; 0.93]	8	Decrease
784*	1	RR 1.40 [1.08; 1.82]	RR 1.37 [1.06; 1.75]	6	Less harn
1040	0	OR 0.88 [0.79; 0.99]	OR 0.88 [0.79; 0.98]	0	No change
1164	51	HR 0.89 [0.80; 0.99]	HR 0.90 [0.83; 0.98]	10	Decrease
1317	23	MD -1.77 [-2.13; -1.41]	MD-1.66 [-1.99; -1.32]	6	Decrease
1551	10	OR 1.79 [1.17; 2.74]	OR 1.52 [1.04; 2.23]	28	Less harn
1580	3	RR 1.63 [1.32; 2.01]	RR 1.62 [1.32; 2.99]	1	Less harn
2054*	8	SMD -0.21 [-0.29; -0.12]	SMD -0.19 [-0.28; -0.11]	10	Decrease
2086	112	MD -0.35 [-0.51; -0.19]	MD -0.45 [-0.55; -0.36]	29	Increase
2143	19	RR 18.28 [12.76; 26.17]	RR 14.20 [10.72; 18.81]	9	Decrease
2193	2	HR 0.99 [0.90; 1.09]	HR 0.99 [0.90; 1.10]	0	No change



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