

OpenTrials

All the Data, on All the Trials, Linked

Jessica Fleminger and Ben Meghreblian



1. introduction
2. we (still) have a problem
3. OpenTrials overview
4. techy stuff
5. data sources
6. user examples
7. demo
8. Q&A



OPEN KNOWLEDGE



EBM Data Lab

University of Oxford

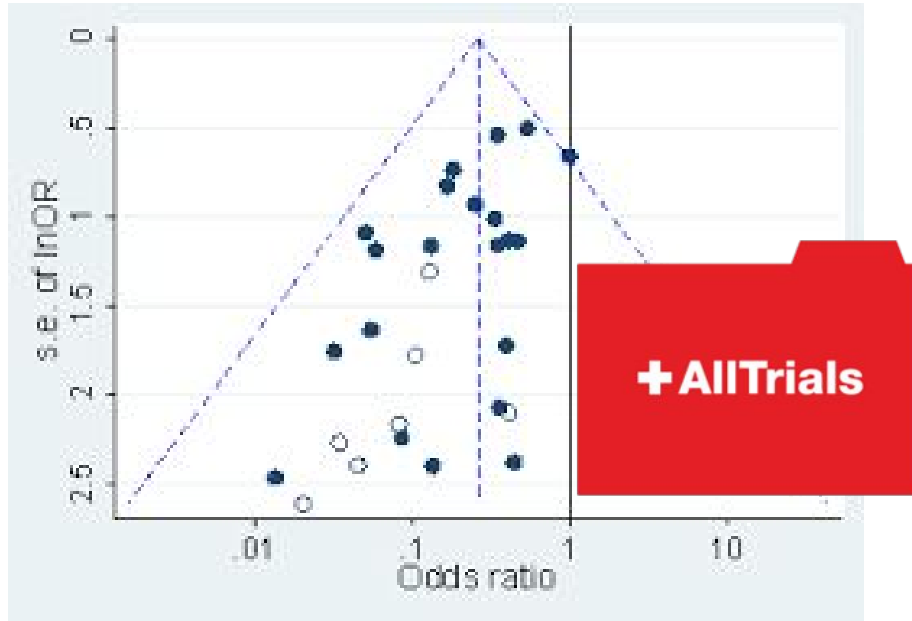


opentrials@okfn.org



we (still) have a
problem

we have a **publication bias** problem



Anderson et al. N Engl J Med. 2015 Mar 12;372(11):1031-9. doi: [10.1056/NEJMsa1409364](https://doi.org/10.1056/NEJMsa1409364).

Prayle AP et al. BMJ. 2012 Jan 3;344:d7373. doi: [10.1136/bmj.d7373](https://doi.org/10.1136/bmj.d7373).

we have an **information dissemination** problem

ABSTRACTS OF THE IDSA 38th ANNUAL MEETING

611 Reduction in the Symptoms and Complications of Influenza A and B in Patients Treated with Oseltamivir (the Time-to-Treatment Study Group)

JOHN J TREANOR, Univ of Rochester, Rochester, NY

Oseltamivir is an oral inhibitor of the neuraminidase enzyme of influenza A and B viruses with significant virologic and clinical efficacy in man. Oseltamivir was studied in a multicenter, placebo-controlled, double-blind, symptom-duration-stratified study. Subjects who met a case definition of influenza consisting of fever $\geq 100^{\circ}\text{F}$ with at least one respiratory (cough, sore throat, nasal congestion) and at least one constitutional symptom (aches/pains, fatigue, headache and chills/sweats) were randomized 2:1 to 75mg oseltamivir or placebo. 1459 patients were enrolled at 164 US study sites with a mean age from 13 to 80 years, 16% were vaccinated against influenza, and 6% had COPD/asthma. A total of 1000 patients were confirmed to have influenza infection; 81% had influenza A; 19% had influenza B. The presence of cough and fever were independent predictors of influenza infection. The median duration of illness, defined as the time to alleviation of all 7 major flu symptoms, was 120.5 hrs in influenza-infected P recipients and 96.3 hrs in O recipients ($p < 0.0001$). The median duration of each of the individual symptoms included in the symptom scores was also decreased by oseltamivir, as follows: chills/sweats (34% reduction), cough (31%), fatigue (33%), headache (29%), myalgia (24%), nasal congestion (42%), sore throat (20%), and fever (33%). Severity of illness, as measured by the area under the curve of symptom scores, was reduced by treatment ($P = 10.49$ score.hours, $O = 837$ score.hours, median difference 203, 95% CI 117-289). Lower respiratory tract complications reduced with O included bronchitis (P 4%, O 2%) and pneumonia (P 2%, O 0.3%). The results of this study are very similar to those reported in a phase III trial conducted in the U.S. (38th ICAAC, 1998) and demonstrate a consistent beneficial effect of early antiviral treatment of influenza with oseltamivir in populations including adolescents, the elderly and others with co-morbid conditions.

methods

vs.

clinical study reports

patient information sheets

consent forms

ethics committee documents

individual patient data

Jefferson T et al. BMJ. 2014 Apr 9;348:g2545. doi: [10.1136/bmj.g2545](https://doi.org/10.1136/bmj.g2545).

we have a **discrepancy** problem



Turner EH et al. N Engl J Med 2008; 358:252-260 doi: [10.1056/NEJMsa065779](https://doi.org/10.1056/NEJMsa065779).



we have a **publication bias** problem

we have an **information dissemination** problem

we have a **discrepancy** problem

we have an **information**
architecture problem

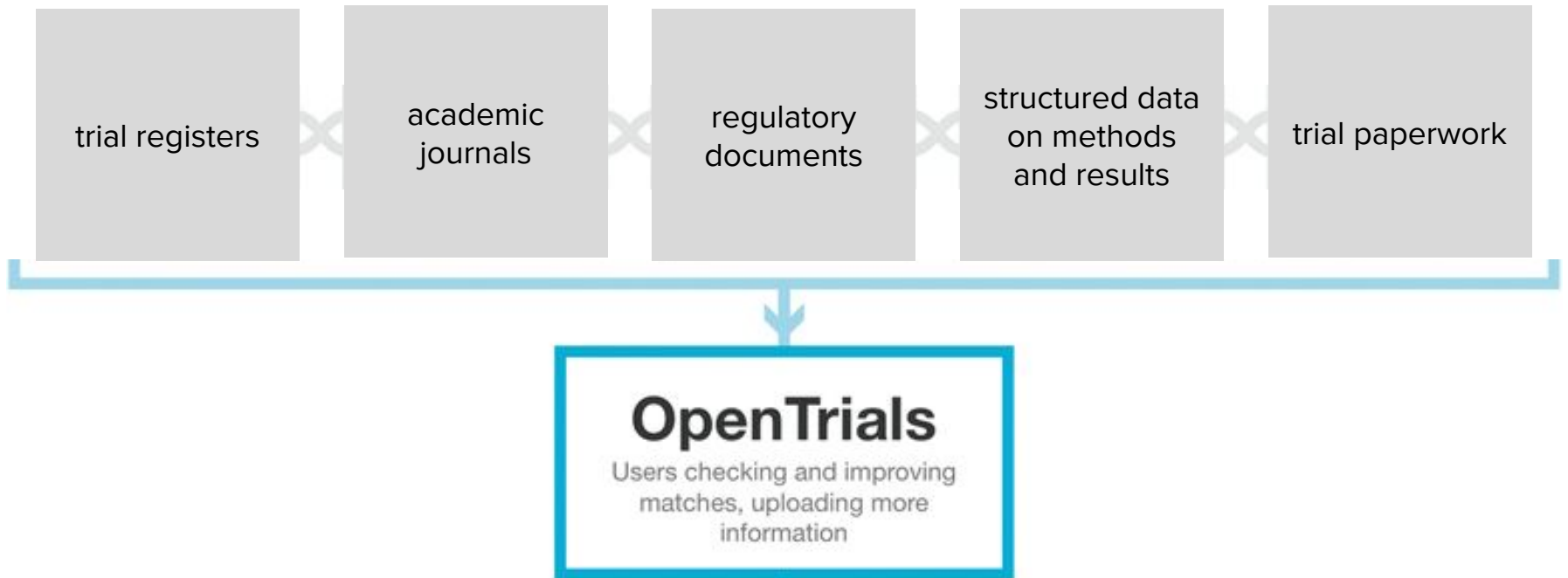


threaded publications

Chalmers I, Altman DG. Lancet. 1999;353:490-3
doi: [10.1016/S0140-6736\(98\)07618-1](https://doi.org/10.1016/S0140-6736(98)07618-1).

TBIT (CC0)

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release early
release often



OpenTrials
All the data, on all the trials, linked

About Patients Researchers Transparency

For researchers

Mertrazine and Cobazol to Treat Major Depression

OpenTrials > For Researchers > Depression > Mertrazine and Cobazol

Condition: Major Depression Treatment: Mertrazine, Cobazol June 2004 - March 2010

218 Participants Men and women Aged 18-65

Registries

- ClinicalTrials.gov
- BioMet Inc
- Add another

Papers

- Results paper
- Protocol paper
- Add another

Regulatory documents

- CDR
- EPAR segment
- Add another

Structured data

- ClinicalTrials.gov results
- SPDR from AHRQ
- Add another

Paperwork

- Blank consent form
- Patient information sheet
- Blank case report form
- Protocol
- Statistical analysis plan
- Lay summary
- Ethics/IRB Approval
- Add another

Methodological rigour

The methodological rigour of this trial was scored in a [systematic review](#) in September 2012, where it was scored as being at "high risk" of bias from "allocation concealment", "unclear" for "method of randomisation", and "unclear" for "blinding". [Read more](#) about what this means.

Individual Patient Data

We believe individual patient data may be available for this trial on application. That is because it was sponsored by [BioMet](#) and conducted after 2007. The trial data sharing policy and data application details for this organisation are available. You can read more about [individual patient data sharing](#). We are aware of [two successful applications](#), and [one unsuccessful application](#) for this data.

Help us improve this data

- Duplicates: we think there are 2 more registry entries that might match this one, [review them](#).
- Give us results: the last [fuzzy-match search](#) for results for this trial was 2 days ago. The last [manual search](#) for results for this trial was 92 days ago by OpenTrials librarians, and 27 days ago by an OpenTrials site visitor. [Search for results](#).
- Tell us about [unregistered trials](#): upload any trial information you have on trials we don't yet know about, whether it's a consent form, or an academic paper.

Work on the queue: there are **836 documents** currently waiting to be reviewed, that could be attached to an existing trial in the database.

Conducted in

- Maryland, USA
- Connecticut, USA
- Manchester, UK
- Maastricht, NL

Principal investigator

- Clare M Fitzgerald

Sponsor

- BioMet

Credits and acknowledgements for data on this page

Protocol matched by [Caroline Smith, UCCP](#) from her dataset in [this paper](#).

EPAR segment uploaded by [Martin Dunbar, Imperial College London](#).

Lay Summary imported from [HRA](#).

OPEN KNOWLEDGE

Privacy policy IP policy Cookie policy Terms of use

CC BY

Contact



audit publication bias



host/link important
trial documents

trial sponsors with the most unreported trials registered on
 on a sponsor's name to find out whether it's getting better at
 s - or worse.

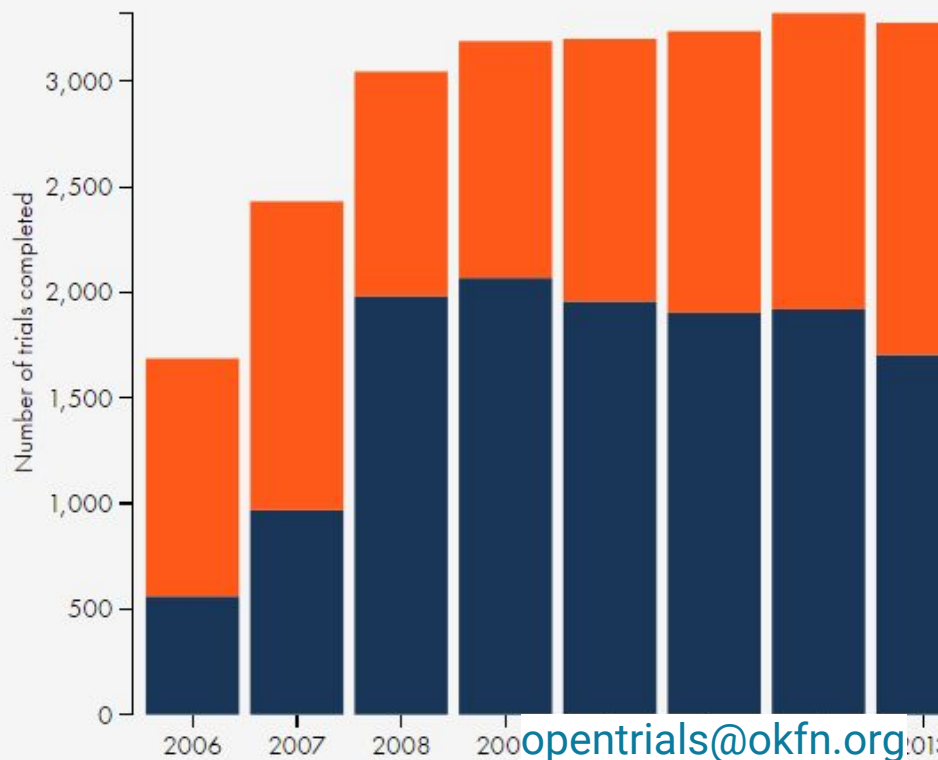
	Trials missing results	Total eligible trials	Percent missing
	285	435	65.5%
ceuticals	201	534	37.6%
Institute (NCI)	194	558	34.8%
que - Hôpitaux de Paris	186	292	63.7%
e	183	809	22.6%

track sponsors and organisations

Unive			63.3%
ical Trials in Oncology	129	160	80.6%

Trials by year

Since Jan 2006, **all major trial sponsors** completed 25,927 eligible trials, but **haven't published results for 11,714 trials**. That means 45.2% of completed trials have missing results.



 Male & Female

 Status: Complete

 Recruitment status: Not recruiting

search functionality



**investigate
discrepancies**

```
'replace_interests' => false,  
'send_welcome' => false,  
    ]];
```

```
in_array('error', $result)) {  
    $result = array ('response' => 'error', 'message'  
    $result = array ('response' => 'success');  
}
```

increase machine
readability



change sharing norms

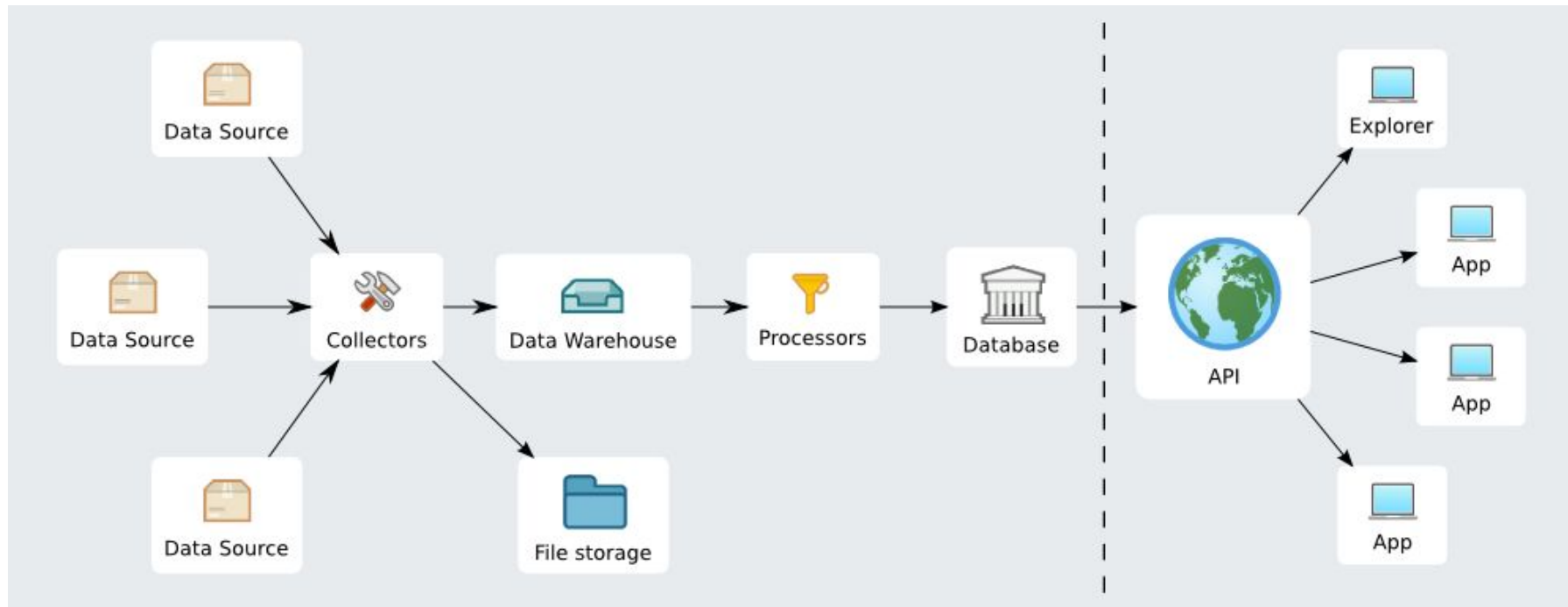
422737 (CC0)

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OpenTrials architecture



scraping

data donations

crowdsourcing



attribution
and
licensing

structured data

HTML

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<div id="trial-info-2"
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class="info-title">ClinicalTrials.gov
Identifier:</div><div
class="identifier">NCT01013220</div
><div class="info-date">First
received: November 12, 2009</div>
<div class="info-date">Last updated:
December 15, 2014</div><div
class="info-date">Last verified:
December 2014 </div><div
class="info-date"> <a
href="/ct2/archive/NCT01013220"
title="Historical versions of study
NCT01013220 on ClinicalTrials.gov
Archive Site - opens in new window"
onclick="openNewWindow('/ct2/archi
ve/NCT01013220'); return
false;">History of
Changes</a></div></div>
```

XML

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depression management
product</measure>
<time_frame>two years after
intervention</time_frame>
<secondary_outcome>
<measure>
management model purchased to
evidence-based models
</measure>
<time_frame>two years after
intervention</time_frame>
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</secondary_outcome>
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ms>
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API

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"identifiers": {
  "nct": "NCT02920840"
},
"primary_title": "Brain Stimulation
Synchronised Modulation of the
Prefrontal Cortex",
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"status": "ongoing",
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"2016-09-26T00:00:00.000Z"
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depression&page=1&per\_page=20
```

Database



PostgreSQL



Microsoft SQL Server

scraping

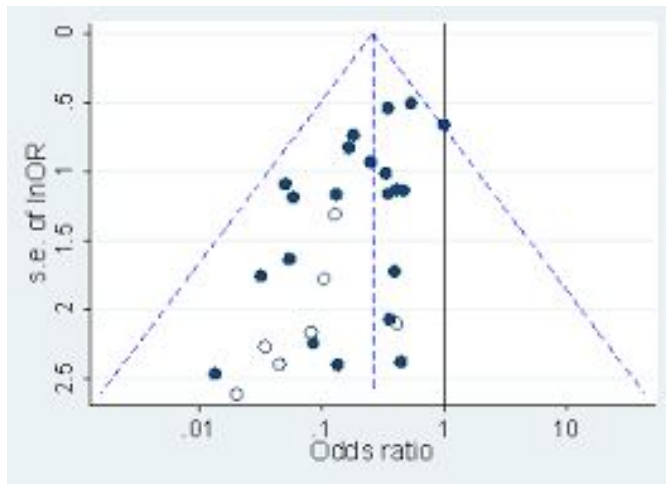
harder



easier

data donations

	A	B	G
1	NCT ID	OFFICIAL TITLE	PMID
2	NCT00002762	MENSTRUAL CYCLE	19487378
3	NCT00002879	A PHASE II TRIAL O	18470909
4	NCT00003134	A Phase II Trial of I	19066728
5	NCT00003596	A Phase III Random	18430910
6	NCT00003762	Randomized Phase	19188136
7	NCT00003829	A Phase II Study o	
8	NCT00003849	A Phase II Trial of O	15657404
9	NCT00003996	A Phase II Trial of P	
10	NCT00005601	A Phase II Trial of O	18569634
11	NCT00005829	Phase II Study of G	
12	NCT00005963	Phase II Trial of Do	16118507
13	NCT00006007	A Phase II Study of	16303865
14	NCT00006010	Phase II Trial of Ge	21555932
15	NCT00006305	Bypass Angioplasty	19502645
16	NCT00009893	Phase II Trial Of Ge	15558814
17	NCT00017186	Phase II Study of G	18224661
18	NCT00022139	A Phase II Trial of P	17921712
19	NCT00022646	A Phase II Clinical T	16135464
20	NCT00025025	Colorectal Cancer S	19026650
21	NCT00026403	A Phase II Study of	17577035
22	NCT00027612	Pilot And Phase II	20063115
23	NCT00027963	The Efficacy Of Gab	17853395
24	NCT00028925	Phase II Trial of Ora	19935387
25	NCT00032032	Phase I/II Study Of	16730134
26	NCT00040859	A Phase II Study of	16303863
27	NCT00040885	Docetaxel And Infil	19665818
28	NCT00043069	Osteoporosis Prev	19468757
29	NCT00045162	Randomized Phase	16648503
30	NCT00045201	Phase I Trial of OSI	
31	NCT00049673	A Randomized Pha	23297129
32	NCT00053027	Phase II Trial of Rit	18470909
33	NCT00054418	A Phase III Random	19075260
34	NCT00054457	A Phase II Study O	16497828



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<DESCRIPTION>
<P>Performance bias or detection
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</QU
    
```

opentrials@okfn.org

Which category best describes your contribution?

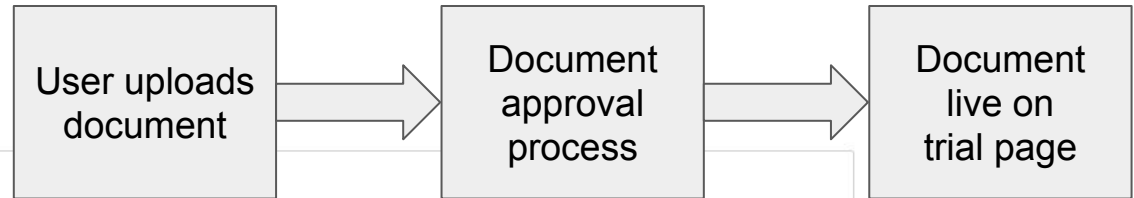
- Analytics code
- Case report forms
- Clinical study report
- Clinical study report synopsis
- Condition
- Consent forms
- Critical review
- European Public Assessment Report (EPAR) document
- Intervention
- Lay summaries
- Other
- Patient information sheet
- Publication (press release, article, blog post, etc.)
- Registry entry
- Statistical analysis plan**
- Trial protocols
- Trial webpage
- U.S. Food and Drug Administration (FDA) document

Which category best describes your contribution? ▾

, you're agreeing with our [Terms of Use](#). The contributions will be moderated before being displayed

crowdsourcing

isting link, like a trial's webpage (e.g. <http://www.somewhere.com/data.pdf>)



Comments

Tell us about what you're sending

Submit

attribution and licensing

Open Definition

The Definition

Conformant Licenses

Participate

News



The Open Definition

The **Open Definition** sets out principles that define “openness” in relation to **data and content**.

It makes **precise** the meaning of “open” in the terms “**open data**” and “**open content**” and thereby ensures **quality** and encourages **compatibility** between different pools of open material.

It can be summed up in the statement that:

“Open means anyone can freely access, use, modify, and share for any purpose (subject, at most, to requirements that preserve provenance and openness).”

Put most succinctly:

“Open data and content can be freely used, modified, and shared by anyone for any purpose”

[Read the full Open Definition »](#)

THE OPEN DEFINITION IN YOUR LANGUAGE

العربية | Беларуская | Български | Català
| Czech | Dansk | Deutsch | Ελληνικά
| English | Español | Euskara | Suomi
| Français | Galego | עברית | हिन्दी
| Croatian | Magyar | Indonesian | Íslenska
| Italiano | 日本語 | සිංහල | 한국어
| македонски јазик | Norsk (bokmål)
| Polski | Português Brasileiro |
| Português | Русский | Shqip | Srpski |
| Svenska | తెలుగు | Türkçe | Українська
| 简化中国 | 中文





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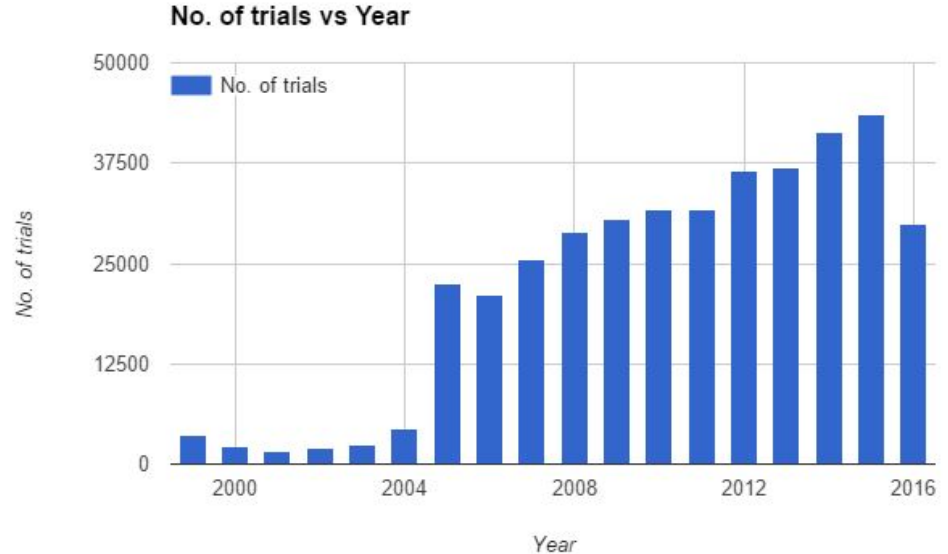
imported: **trial registers**

ClinicalTrials.gov

A service of the U.S. National Institutes of Health



**International Clinical Trials
Registry Platform**
Search Portal



337,911 deduplicated trials



imported: **publications**

~**510,000** publications

(~24,000 linked with trials)

errors found in some registry IDs

⇒ feedback via PubMed Commons

Ben Goldacre 2016 Aug 24 05:01 a.m.

This trial has the wrong trial registry ID associated with it on PubMed: both in the XML on PubMed, and in the originating journal article. The ID given is NCT023528702. We believe the correct ID, which we have found by hand searching, is [NCT02352870](#).

This comment is being posted as part of the [OpenTrials.net](#) project^[1], an open database threading together all publicly accessible documents and data on each trial, globally. In the course of creating the database, and matching documents and data sources about trials from different locations, we have identified various anomalies in datasets such as PubMed, and in published papers. Alongside documenting the prevalence of problems, we are also attempting to correct these errors and anomalies wherever possible, by feeding back to the originators. We have corrected this data in the [OpenTrials.net](#) database; we hope that this trial's text and metadata can also be corrected at source, in PubMed and in the accompanying paper.

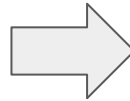
Many thanks,

Jessica Fleming, Ben Goldacre*

[1] Goldacre, B., Gray, J., 2016. OpenTrials: towards a collaborative open database of all available information on all clinical trials. *Trials* 17. doi:10.1186/s13063-016-1290-8 [PMID: 27056367](#)

imported: **risk of bias scores**

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Methodological rigour

The methodological rigour of this trial was scored in a **systematic review**, where it was scored as being at "low risk" of bias for "sequence generation", "unclear" for "allocation concealment", "unclear" for "attrition", "high risk" of bias for "reporting", "low risk" of bias for "other biases", "unclear" for "blinding (performance)", and "low risk" of bias for "blinding (detection)".

imported: **research summaries**

~**22,000** research summaries

provides 'lay summary' explanation of the trial for a non-medical audience

created for ethics committee

FOIA request ⇨ HRA for Patient Information Sheets

This study is being carried out to see if the drug MPDL3280A can reduce the size of tumours in patients with bladder cancer before surgery. MPDL3280A is currently being investigated in a number of tumour types and has been shown to have activity in bladder cancer which has spread beyond the bladder.

MPDL3280A is designed to stop a protein called PD-L1 (programmed death-ligand 1) being expressed on the cancer. PD-L1 helps to camouflage the cancer, preventing the body's immune system from identifying the cancer and fighting it. MDPL3280A works against PD-L1, allowing the immune system to recognise the tumour cells as foreign bodies and attack them.

There are strict inclusion and exclusion criteria for this trial. Broadly speaking, patients with histologically confirmed transitional cell carcinoma of the bladder (T2-T4a – this indicates how far into the bladder the cancer cells have grown) are eligible.

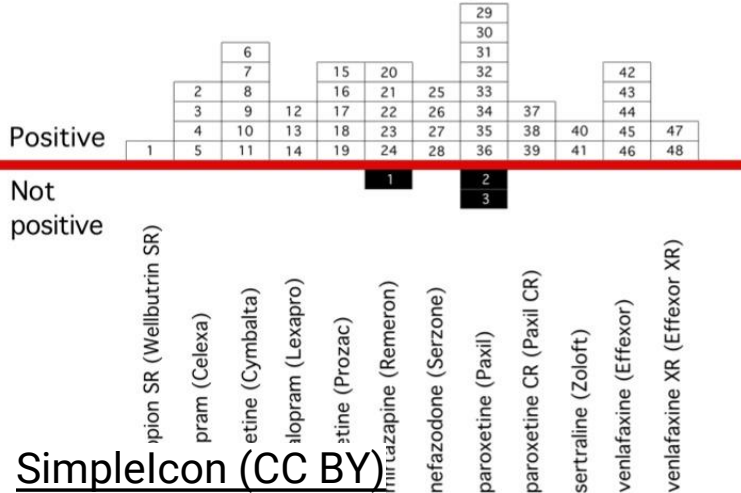
If a patient is eligible for the study and decides to take part, they will be enrolled into the study and will receive up to two 3-weekly cycles of MPDL3280A. 4-8 weeks after being enrolled, the patient will have an operation to remove the bladder (cystectomy) as per normal practise. Treatment with MPDL3280A in the window between enrolment and surgery will not delay this surgery. Following the operation, they will attend three hospital visits (4, 12 and 24 weeks after cystectomy) and their disease progress/survival will be followed over the next 2 years. The clinical team will compare the patient's tumour tissue samples, scan results and blood results from before and after treatment with MPDL3280A in order to see how well the drug works and if it is safe. Many of the procedures involved in this study are offered as standard care and participation in this trial will not delay surgery.

The study is being carried out in England and will also take place in 5 other European countries (France, Germany, Italy, the Netherlands, Spain).

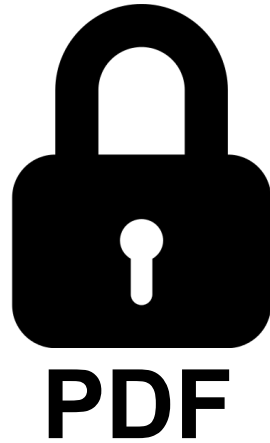
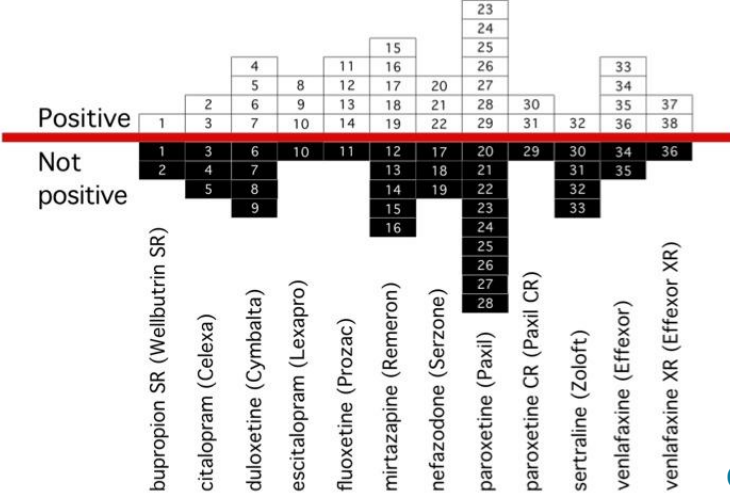
live prototype: FDA Drug Approval Packages

46,332 documents imported to Document Cloud and OCRed
16,329 FDA applications

Journal version of antidepressant trials



FDA version – same trials



ongoing: **clinical study reports**



abbvie

SYNOPSIS

Name of Sponsor/Company	Janssen Research & Development*
Name of Finished Product	To be determined
Name of Active Ingredients	TMC435 (simeprevir)

* Janssen Research & Development is a global organization that operates through different legal entities in various countries. Therefore, the legal entity acting as the sponsor for Janssen Research & Development studies may vary, such as, but not limited to Janssen Biotech, Inc.; Janssen Products, LP; Janssen Biologics, BV; Janssen-Cilag International NV; Janssen, Inc; Janssen Infectious Diseases BVBA (formerly known as Tibotec BVBA); Janssen R&D Ireland (formerly known as Tibotec Pharmaceuticals); or Janssen Research & Development, LLC (including the former Tibotec Inc. entity). The term "sponsor" is used to represent these various legal entities as identified on the sponsor list.

Status: Approved

Date: 4 October 2013

Prepared by: Janssen Infectious Diseases - Diagnostics BVBA

Protocol No.: TMC435-TiDP16-C216

Title of Study: A Phase 3, randomized, double-blind, placebo-controlled study to investigate the efficacy, safety and tolerability of TMC435 versus placebo as part of a treatment regimen including peginterferon α -2a (Pegasis®) and ribavirin (Copegus®) or peginterferon α -2b (PegIntron®) and ribavirin (Rebetol®) in treatment-naïve, genotype 1, hepatitis C-infected subjects

Study Name: TMC435-TiDP16-C216 (QUEST-2)

EudraCT Number: 2010-021174-11

NCT No.: NCT01290679

Clinical Registry No.: CR017380

Coordinating Investigator: [REDACTED] MD, [REDACTED] Germany

Study Centers: The study was conducted at 76 sites in 14 countries.

Publication (Reference):

Manns M, Marcellin P, Poordad Fred FP, et al. Simeprevir (TMC435) with peginterferon/ribavirin for treatment of chronic HCV genotype-1 infection in treatment-naïve patients: Results from QUEST-2, a Phase 3 trial; Poster at The International Liver Congress 2013, April 24 - 28 2013, Amsterdam, The Netherlands; Journal of Hepatology 2013 Suppl 1(58) S568.

Study Period: 18 January 2011 to 5 February 2013

Phase of Development: Phase 3

Objectives: The primary objective was to demonstrate the superiority of TMC435 versus placebo as part of a treatment regimen including pegylated interferon alpha-2a (PegIFN α -2a)/ribavirin (RBV) or PegIFN α -2b/RBV, with respect to the proportion of treatment-naïve hepatitis C virus (HCV) genotype 1 infected subjects with sustained virologic response (SVR) 12 weeks after the planned end of treatment (SVR12).

ongoing: [more...](#)



Bad Pharma™

Ben Goldacre

Bestselling author of *Bad Science*

How drug companies
mislead doctors and
harm patients

364 pages



even **asking** has
been interesting...



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7. demo
8. Q&A

1. researcher
2. doctor
3. patient
4. data journalist
5. developer
6. policy maker
7. regulator



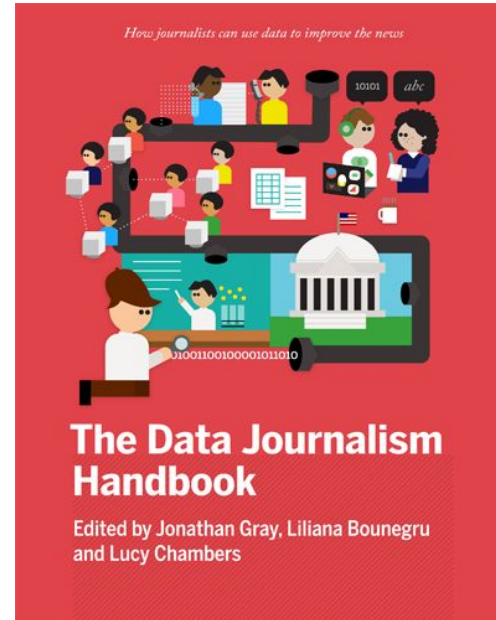
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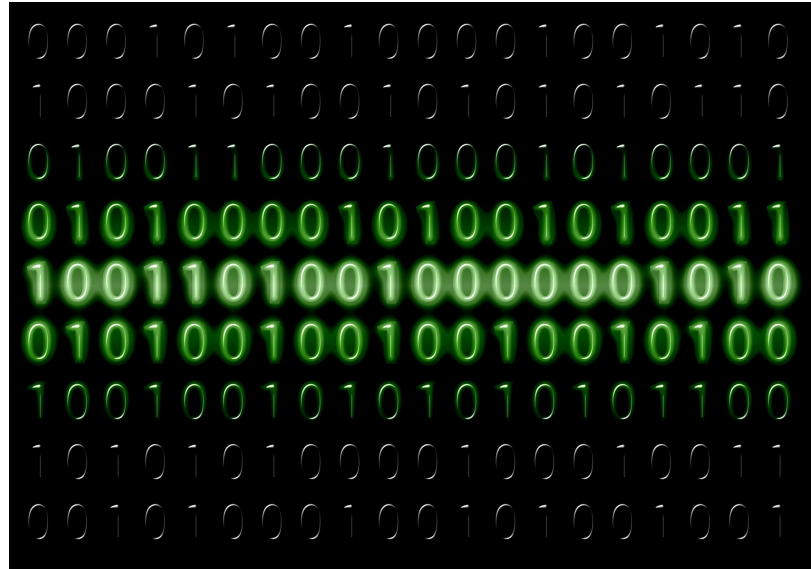
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2. doctor
3. patient
4. data journalist
5. developer
6. policy maker
7. regulator



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1. introduction
2. we have a problem
3. OpenTrials overview
4. techy stuff
5. data sources
6. user examples
7. demo
8. Q&A

explorer.opentrials.net

All the data, on all the trials

OpenTrials is a linked database for all the available information, on every trial ever conducted. It is built and updated with your help.

Find trial by title, identifier or other keywords (e.g. "heart attack")

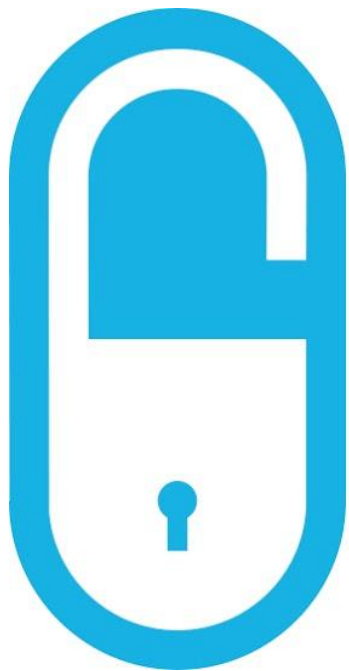


Advanced search

beta version!

opentrials@okfn.org

please
contribute!



thank you!
any questions?

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