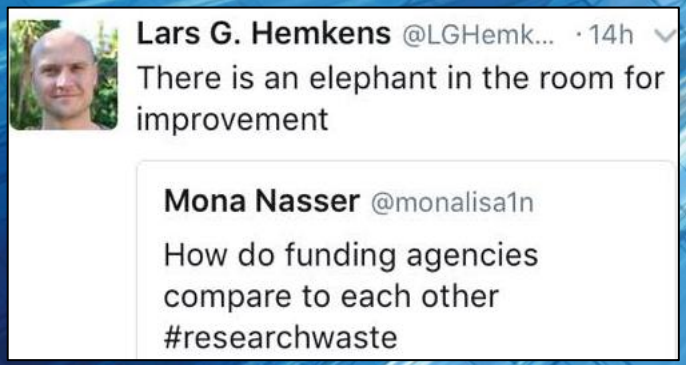
PLYMOUTH UNIVERSITY PENINSULA
SCHOOLS OF MEDICINE & DENTISTRY

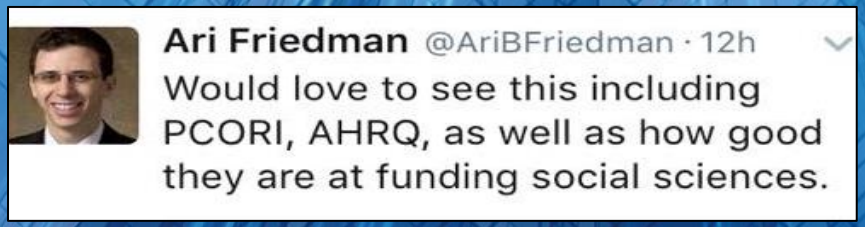
What do funders do to increase value and reduce waste in research?

Can these policies and practices help to address issues of research integrity?

Mona Nasser Clinical Lecturer in Evidence Based Dentistry

Project Team: Paul Glasziou, Iain Chalmers, Mike Clarke, Hans Lund , Hanna Nykvist, Kjetil Gundro Brurberg





Conference theme

The 5th World Conference on Research Integrity will be organized around the interlinked themes of **transparency** and **accountability,** ..

REWARD statement *(www. researchwaste.net)*

We recognise that, while we strive for excellence in research, there is much that needs to be done to **reduce waste and increase the value** of our contributions…

Funding agency	Country
National Institute for Health Research **(NIHR)**	UK/England
Medical Research Council **(MRC)**	UK
French Ministr	France
l'Agence Natio	France
Deutsche Fors	Germany
The Netherlan Development	Netherlands
Danske Regior	Denmark
Regional Healt	Norway
National Health and Medical Research Council **(NHMRC)**	Australia
Canadian Institutes of Health Research **(CIHR)**	Canada
National Institutes of Health **(NIH)**	USA
Patient-Centered Outcomes Research Institute **(PCORI)**	USA

- Browsing websites
- Using Manuals and Handbooks
- Searching websites
- Make-up of committees

Note – the project focuses only on information available on the website. We will later contact funders to assessed whether we have accessed appropriate information and interpreted it appropriately

Evaluate

- Funding methodological research (research on research)

Transparency

- Research prioritisation with stakeholder engagement
- Systematic reviews ahead of new primary studies;
- Registration of studies and publication of full proposal
- Full publication of the methods and results

EVALUATE

Nicola Low
@nicolamlow

@trished @TheLancet @monalisa1n @iainchalmersTTi @PaulGlasziou Are funders funding research to see if the practices reduce waste in output?

25/03/2017, 07:08

Sarah Knowles @dr_know · 11h

Very glad "research on research" is being recognised. Gets dismissed (avoided?) as 'naval gazing', I think it's getting our house in order

> **Mona Nasser** @monalisa1n
>
> How do funding agencies compare to each other #researchwaste @iainchalmersTTi @PaulGlasziou @tweethlund @ebrnetwork @CAPSMG #lancet

Does the funder provide targeted funding to undertake "research on research"?

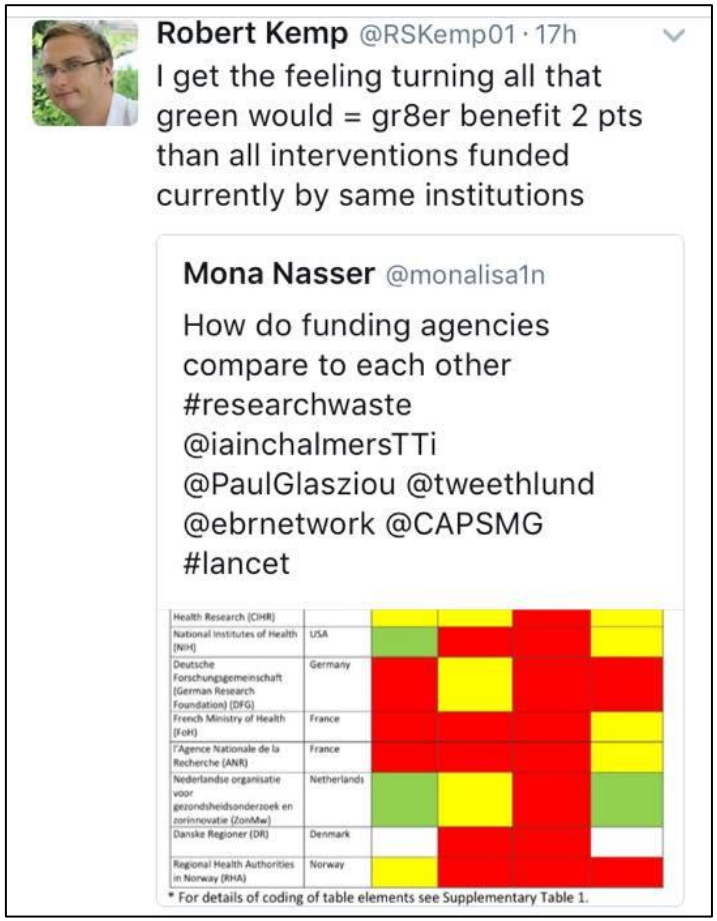
UK	NIHR/MRC
Netherlands	ZonMw
USA	PCORI
France	FMoH
France	ANR
Canada	CIHR
USA	NIH
Germany	DFG
Norway	RHA
Australia	NHMRC
Denmark	DR

Dedicated funding programme for methodological research
Methodological research can be funded but there is no dedicated programme for it
Only support internal staff working on methodological research.
Not funding methodological research

MRC/NIHR	ZonMW	PCORI
Methodology research programme	Responsible Research Practices (FRRP)	Patient-Centered Outcomes Research and Methodological Research
Study of how **best to design, conduct, analyse and evaluate medical and health research…**	..to encourage **quality, integrity, efficiency and positive social impact in scientific and academic research**….	Improving **methods for the design and conduct of clinical studies**…

TRANSPARENCY

How we select questions?



Robert Kemp @RSKemp01 · 17h

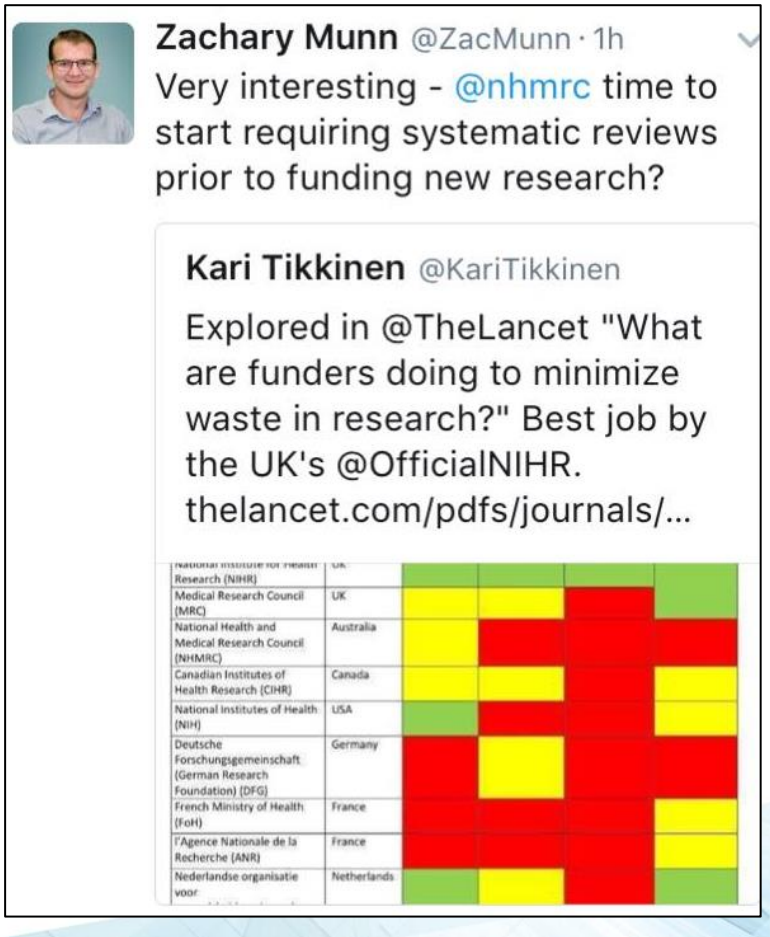
I get the feeling turning all that green would = gr8er benefit 2 pts than all interventions funded currently by same institutions

Mona Nasser @monalisa1n

How do funding agencies compare to each other #researchwaste @iainchalmersTTi @PaulGlasziou @tweethlund @ebrnetwork @CAPSMG #lancet

Health Research (CIHR)	
National Institutes of Health (NIH)	USA
Deutsche Forschungsgemeinschaft (German Research Foundation) (DFG)	Germany
French Ministry of Health (FoH)	France
l'Agence Nationale de la Recherche (ANR)	France
Nederlandse organisatie voor gezondsheidsonderzoek en zorginnovatie (ZonMw)	Netherlands
Danske Regioner (DR)	Denmark
Regional Health Authorities in Norway (RHA)	Norway

* For details of coding of table elements see Supplementary Table 1.



Zachary Munn @ZacMunn · 1h

Very interesting - @nhmrc time to start requiring systematic reviews prior to funding new research?

Kari Tikkinen @KariTikkinen

Explored in @TheLancet "What are funders doing to minimize waste in research?" Best job by the UK's @OfficialNIHR. thelancet.com/pdfs/journals/...

National Institute for Health Research (NIHR)	UK
Medical Research Council (MRC)	UK
National Health and Medical Research Council (NHMRC)	Australia
Canadian Institutes of Health Research (CIHR)	Canada
National Institutes of Health (NIH)	USA
Deutsche Forschungsgemeinschaft (German Research Foundation) (DFG)	Germany
French Ministry of Health (FoH)	France
l'Agence Nationale de la Recherche (ANR)	France
Nederlandse organisatie voor	Netherlands

How priorities are set? Are patients and public involved?

UK	NIHR
Netherlands	ZonMw
USA	PCORI
UK	MRC
Norway	RHA
Australia	NHMRC
Canada	CIHR
USA	NIH
France	FMoH
France	ANR
Germany	DFG
Denmark	DR

Prioritisation process is transparently and patients are partners in the decision making
Some information on the plan for a prioritisation process but not on implementation
Patients involvement is very limited
No patient involvement in the priority setting process
No information on how priorities are set

Are applicants who seek support for new research required to refer to systematic reviews of existing evidence?

UK	NIHR
USA	PCORI
UK	MRC
Germany	DFG
Netherlands	ZonMw
Canada	CIHR
France	FMoH
France	ANR
Denmark	DR
Norway	RHA
Australia	NHMRC
USA	NIH

Primary research is not funded without a systematic review
Only Clinical trials are not funded without a systematic review
Systematic reviews are encouraged before new research but are not mandatory
Primary research is funded without a systematic review

Framework for Establishing Research Priorities

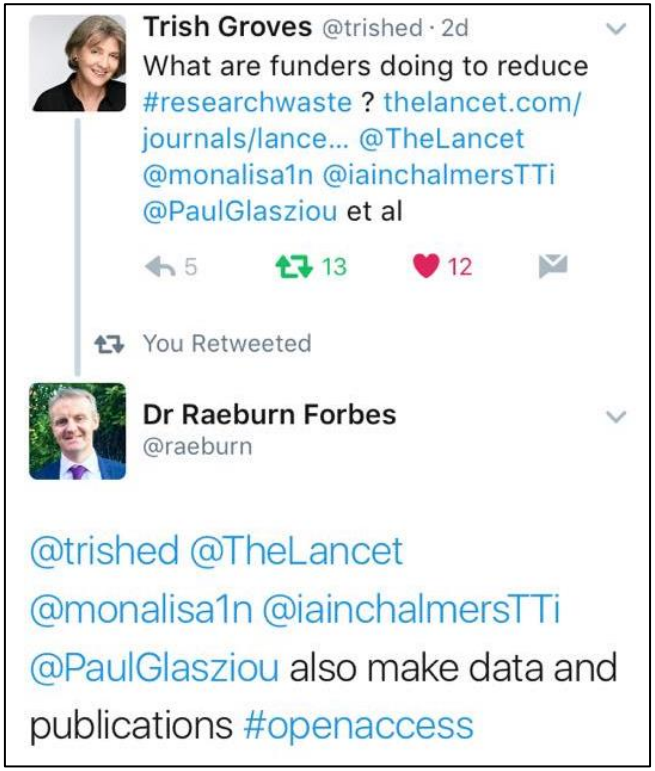
- Topic generation
  - engagement of multiple stakeholders, especially patients, is critical at this stage
- Systematic review and Gap analysis
- Value of information analysis
- Peer and stakeholder review

NIHR definition of a systematic review

- Is completed according to a predetermined methodology
- Methodology is adequately described to allow, in principle, replication by others
- Has well defined and justified inclusion and exclusion criteria
- Minimises bias and random error in a way **proportionate to the risk of an inappropriate funding decision**
- Maximises completeness in a way **proportionate to the risk of an inappropriate funding decision**
- References ongoing studies
- Critically appraises for quality and relevance
- Synthesises [in a credible way and without introduce new bias]

TRANSPARENCY

How we report the research?



Does the funder require registration of research?

UK	NIHR
Netherlands	ZonMw
USA	PCORI
UK	MRC
France	FMoH
France	ANR
Germany	DFG
Norway	RHA
Australia	NHMRC
Canada	CIHR
USA	NIH
Denmark	DR

All studies have to be registered in an existing registry before they start

Only clinical trials need to be registered in an existing registry before they start

No requirement to register studies before conducting them.

MRC Medical Research Council

3. Registration of Clinical and Public Health Intervention Studies

Any MRC-funded clinical trials, clinical and public health studies with a study design that is within the scope of this policy must register with the ISRCTN[3] Registry and obtain a unique ISRCTN number. The MRC project reference should be included in the registration. The MRC will cover the cost of ISRCTN registration where this has been included in the application for funding.

ANZCTR
Australian New Zealand Clinical Trials Registry
The ANZCTR is an online registry of clinical trials being undertaken in Australia, New Zealand and elsewhere.

a. **Clinical trial or observational comparative effectiveness study of human participants.** Clinical trials must be registered *prior* to enrollment of the first patient. ClinicalTrials.gov (https://clinicaltrials.gov/) must be used for registration of such studies.

b. **Patient registries.** Patient registries must be registered in the Registry of Patient Registries (RoPR) (https://patientregistry.ahrq.gov), which is a repository of patient registries designed and deployed by the Agency for Healthcare Research and Quality (AHRQ) to complement ClinicalTrials.gov. In order for a Patient Registry Profile to exist

c. **Methodological and other projects that are not clinical studies or patient registries.** Methodological projects and others that are not appropriate for ClinicalTrials.gov or RoPR must be registered in the Health Services Research Projects in Progress database (HSRProj) (http://wwwcf.nlm.nih.gov/hsr_project/home_proj.cfm). HSRProj, a database

Making the proposal available before starting the study?

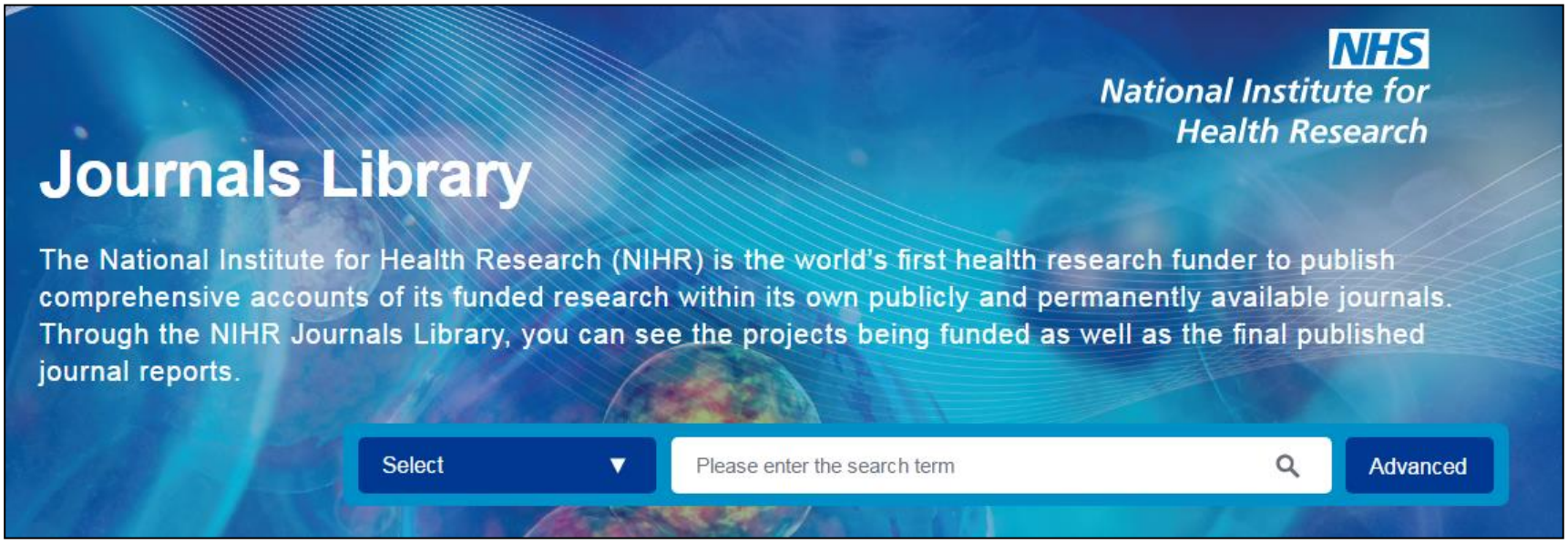
UK	NIHR
UK	MRC
France	FMoH
France	ANR
Germany	DFG
Netherlands	ZonMw
Denmark	DR
Norway	RHA
Australia	NHMRC
Canada	CIHR
USA	NIH
USA	PCORI

The full proposal are available online for all studies
The full proposal for some studies are available
Part of the proposal for each study is available
No requirement to make the proposal (in whole or in part) available

What is the funder's policy on public access to data from completed research?

UK	NIHR
UK	MRC
Norway	RHA
Australia	NHMRC
Canada	CIHR
USA	NIH
USA	PCORI
France	FMoH
France	ANR
Germany	DFG
Netherlands	ZonMw
Denmark	DR

All raw data from the study be made publicly available
Publish the final report with summary results in a specific timeframe
No requirement to publish the findings of the study


NHS
National Institute for Health Research
Journals Library
The National Institute for Health Research (NIHR) is the world's first health research funder to publish comprehensive accounts of its funded research within its own publicly and permanently available journals. Through the NIHR Journals Library, you can see the projects being funded as well as the final published journal reports.
Select
Please enter the search term
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Major research funders and international NGOs to implement WHO standards on reporting clinical trial results

News release

18 MAY 2017 | GENEVA - Some of the world's largest funders of medical research and international non-governmental organizations today agreed on new standards that will require all clinical trials they fund or support to be registered and the results disclosed publicly.

In a joint statement, the Indian Council of Medical Research, the Norwegian Research Council, the UK Medical Research Council, Médecins Sans Frontières and Epicentre (its research arm), PATH, the Coalition for Epidemic Preparedness Innovations (CEPI), Institut Pasteur, the Bill & Melinda Gates Foundation, and the Wellcome Trust agreed to develop and implement policies within the next 12 months that require all trials they fund, co-fund, sponsor or support to be registered in a publicly-available registry. They also agreed that all results would be disclosed within specified timeframes on the registry and/or by publication in a scientific journal.

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Volume 94, Issue 3
September 2016
Pages 485–514

Original Investigation

The Mass Production of Redundant, Misleading, and Conflicted Systematic Reviews and Meta-analyses

JOHN P.A. IOANNIDIS

First published: 13 September 2016 Full publication history

DOI: 10.1111/1468-0009.12210 View/save citation

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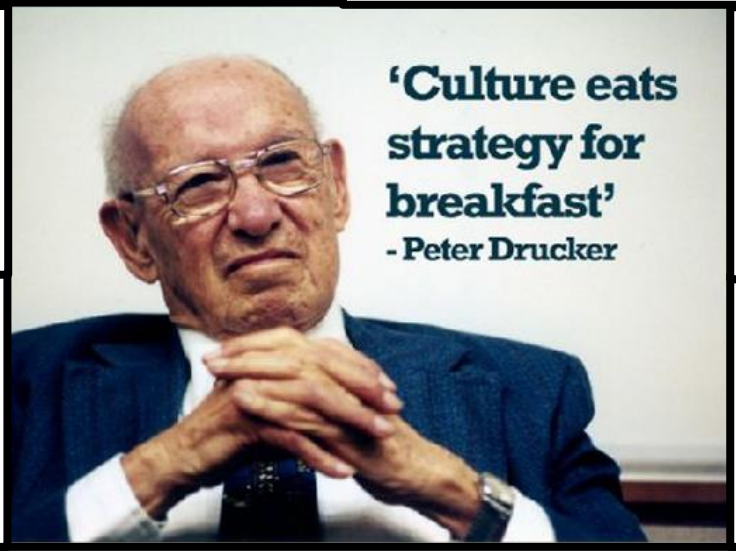
with for comparison. Most investigators in most fields loathe performing a replica of a previous study. This is probably a consequence of the requirement to promise novelty and innovation imposed on researchers by funding agencies and promotion committees. Only a tiny fraction of biomedical articles are truly disruptively innovative. [15] The vast majority of articles are neither innovative nor identical to previous work. Studies may be similar, but they are made deliberately different in one or more aspects. For example, in an empirical evaluation of 60 published studies on risk factors for pterygium (a very common eye condition), no pair of studies considered the exact same factors or used identical adjustments for "known" risk factors.[16]

Researchers & Research leaders		Universities, academic & research Institutes
Scientific societies		Industry and private sector
Funders		Policy making organisations
End-stakeholders: Members of Public, Clinician, etc.		

Magne Nylenna @magnenyle... · 10h

Is this really the situation in Norway? @jarottingen @gunnarbovim @helsemidtnorge

Matthias Egger
@eggersnsf

Let's add @snsf_ch to this list and get to green swiftly!

Rajna Ogrin @Rajna_O · 16h

Sobering to see all the red in Australia's funding agency NHMRC initiative, and no green - we need to do better

Ulrich Dirnagl
@dirnagl

What are funders doing to minimise waste in research? Check the appendix @TheLancet ! DFG mostly 'red': bit.ly/2lQFh5A

12/03/2017, 16:00

Tim Stokes
@StokesTim63

Great review and a pity NZ's #HRC not included #researchwaste @monalisa1n

Teemu Murtola
@Tmurtola

I would like to see comparisons like these done also on the Finnish funding agencies

Dr. Giordano @giordanopg · 9h

I'd love to see how the Mexican one, Conacyt, compares