

Understanding and using altmetrics

Scott Taylor

Research Services Manager

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NEWS: As #spring seems to be in the air, how rabbits have developed genetic resistance to myxomatosis through natural selection
[manchester.ac.uk/discover/news/...](http://manchester.ac.uk/discover/news/)



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- UK trial finds annual breast screening in women identified at 'moderate' or 'high' risk detects cancers which were significantly smaller in size and less likely to have spread to the lymph nodes
- First long-term study suggests annual screening for women at increased risk could be extended from 40-49 to ages 35-39 – which could in future benefit up to 86,000 women in the UK

11 February 2019

Annual screening detects breast cancers earlier for women aged 35-39 with a family history

Annual screening for younger women aged 35-39 who have a family history of breast cancer would be highly effective in detecting tumours earlier, a major UK trial has found.



richard horton

@richardhorton1

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Early mammography can detect early breast cancer, with potentially important clinical implications. bit.ly/2SFAjIj

12:17 AM - 11 Feb 2019

8 Retweets 21 Likes





Contents lists available at ScienceDirect

EClinicalMedicine

journal homepage: <https://www.journals.elsevier.com/eclinicalmedicine>

EClinicalMedicine
Published by THE LANCET

Final Results of the Prospective FH02 Mammographic Surveillance Study of Women Aged 35–39 at Increased Familial Risk of Breast Cancer[☆]

D.G. Evans^{a,b,c,*}, S. Thomas^e, J. Caunt^e, A. Burch^e, A.R. Brentnall^g, L. Roberts^a, A. Howell^{a,c}, M. Wilson^d, R. Fox^e, S. Hillier^e, D.M. Sibbering^f, S. Moss^g, M.G. Wallis^h, D.M. Ecclesⁱ, FH02 study group, S. Duffy^g

^a Prevent Breast Cancer Centre, Wythenshawe Hospital Manchester Universities Foundation Trust, Wythenshawe, Manchester M23 9LT, UK

^b Genomic Medicine, Division of Evolution and Genomic Sciences, The University of Manchester, Manchester Academic Health Science Centre, Manchester Universities Foundation Trust, St. Mary's Hospital, Oxford Road, Manchester M13 9WL, UK

^c Manchester Breast Centre, Manchester Cancer Research Centre, University of Manchester, Christie Hospital, Withington, Manchester M20 4BX, UK

^d Breast Screening Unit, Nightingale Centre, Wythenshawe Hospital, Manchester University Foundation Trust, Wythenshawe, Manchester M23 9LT, UK

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^f Breast Unit, Royal Derby Hospital, Derby DE22 3NE, UK

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^h Cambridge Breast Unit, NIHR Cambridge Biomedical Research Unit, Box 97, Cambridge University Hospitals NHS Foundation Trust, Hills Road, Cambridge CB2 0QQ, UK

ⁱ Southampton General Hospital, Tremona Road, Southampton, Hants SO16 6YD, UK

ARTICLE INFO

Article history:

Received 10 September 2018

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Available online xxxxx

Keywords:

Mammography

Breast cancer

Young

BRCA1

BRCA2

Familial

ABSTRACT

Background: Many women who are at increased risk of breast cancer due to a mother or sister diagnosed with breast cancer aged under 40 do not currently qualify for surveillance before 40 years of age. There are almost no available data to assess whether mammography screening aged 35–39 years would be effective in this group, in terms of detection of breast cancer at an early stage or cost effective.

Methods: A cohort screening study (FH02) with annual mammography was devised for women aged 35–39 to assess the sensitivity and screening performance and potential survival of women with identified tumours.

Findings: 2899 women were recruited from 12/2006–12/2015. These women underwent 12,086 annual screening mammograms and were followed for 13,365.8 years. A total of 55 breast cancers in 54 women occurred during the study period (one bilateral) with 50 cancers (49 women) (15 CIS) adherent to the screening. Eighty percent (28/35) of invasive cancers were ≤ 2 cm and 80% also lymph node negative. Invasive cancers diagnosed in FH02 were significantly smaller than the comparable (POSH-unscreened prospective) study group (45% (131/293) ≤ 2 cm in POSH vs 80% (28/35) in FH02 $p < 0.0001$), and were less likely to be lymph-node positive (54% (158/290, 3 unknown) in POSH vs 20% (7/35) in FH02: $p = 0.0002$). Projected and actual survival were also better than POSH. Overall radiation dose was not higher than in an older screened population at mean dose on study per



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Background:

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Article in British Journal of Sociology, December 2018

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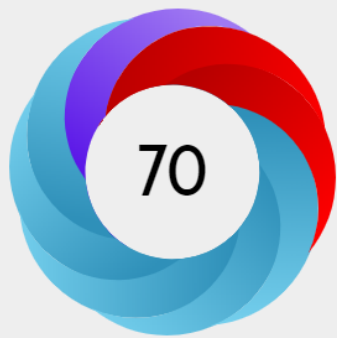
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1	Mention Type	Mention Date	Outlet or Author	Mention Title	Mention URL	Research Journal/Conference	Output Type	Publication Date	Altmetric	Details Page	DOI	ISBN	Nation
2	Policy document	31/10/2017 15:58	National Institute for Health and Care Excellence	Glaucoma	https://www.commoneye.org/	Eye Article		01/01/2003	4	https://www.10.1038/sj.eye.6700261			
3	Policy document	31/10/2017 15:58	National Institute for Health and Care Excellence	Glaucoma	https://www.agreemergraefes.com/	Article		01/06/2001	3	https://www.10.1007/s004170100272			
4	Policy document	31/10/2017 15:58	National Institute for Health and Care Excellence	Glaucoma	https://www.sensitgraefes.com/	Article		12/12/2000	3	https://www.10.1007/s004170000209			
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6	Policy document	31/10/2017 15:28	National Institute for Health and Care Excellence	Glaucoma	https://www.performerinvestigation.com/	Article		15/02/2009	3	https://www.10.1167/iov.08-2136			
7	Policy document	31/10/2017 15:28	National Institute for Health and Care Excellence	Glaucoma	https://www.agreemergraefes.com/	Article		01/06/2001	3	https://www.10.1007/s004170100272			
8	Policy document	31/10/2017 15:28	National Institute for Health and Care Excellence	Glaucoma	https://www.sensitgraefes.com/	Article		12/12/2000	3	https://www.10.1007/s004170000209			
9	Policy document	18/10/2017 12:06	UK Parliament Briefing notes	The regulation of electronic tobacco	http://res.doelctobacco.com/	Article		28/07/2017	230	https://www.10.1136/tobaccocontrol-2017-02-01			
10	Policy document	11/10/2017 14:08	National Institute for Health and Care Excellence	Cystic fibrosis	https://www.individualthorax.com/	Article		15/12/2004	3	https://www.10.1136/thx.2003.015313			
11	Policy document	11/10/2017 14:07	National Institute for Health and Care Excellence	Cystic fibrosis	https://www.emailforcochrane.org/	Book		01/09/1996	519	https://www.10.1002/14651858			
12	Policy document	11/10/2017 12:33	Brookings Institute	Leading birth defects	https://www.publicvalue.com/	Article		01/01/2006	11	https://www.10.1177/027507400528258			
13	Policy document	09/10/2017 09:48	UK Parliament Briefing notes	Baby Loss	http://res.stillbirths.org.uk/	The Lancet Article		23/01/2016	227	https://www.10.1016/s0140-6736(15)00101-0			
14	Policy document	09/10/2017 09:48	UK Parliament Briefing notes	Baby Loss	http://res.stillbirths.org.uk/	The Lancet Article		19/01/2016	169	https://www.10.1016/s0140-6736(15)00101-0			
15	Policy document	09/10/2017 00:00	International Labour Organization	World Employment	http://www.flexibilityhumanresources.com/	Article		01/07/2016	11	https://www.10.1111/1748-8583.12092			
16	Policy document	06/10/2017 17:06	UK Parliament Briefing notes	Mental Health	http://res.theworkingbritishjournal.com/	Article		01/08/2009	3	https://www.10.1080/030698809029569			
17	Policy document	05/10/2017 12:11	UK Parliament Briefing notes	Risk Assessment	http://res.carbonnanotechnology.com/	Article		07/01/2008	130	https://www.10.1038/nnano.2008.111			
18	Policy document	05/10/2017 12:11	UK Parliament Briefing notes	Risk Assessment	http://res.groupinginternational.com/	Article		26/10/2015	5	https://www.10.3390/ijerph121013415			
19	Policy document	05/10/2017 12:11	UK Parliament Briefing notes	Risk Assessment	http://res.airbornejournalof.com/	Article		01/05/2016	6	https://www.10.1016/j.jhazmat.2016.04			
20	Policy document	05/10/2017 12:11	UK Parliament Briefing notes	Risk Assessment	http://res.assessmentsadvances.com/	Chapter		01/01/2017	3	https://www.10.1007/978-3-319-47754-4			
21	Policy document	01/10/2017 00:00	Food and Agriculture Organization of the United Nations	2017-2021	http://www.socialtrajectories.org/	World Development Article		01/01/2012	5	https://www.10.1016/j.worlddev.2011.09			
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31	Policy document	01/10/2017 00:00	Food and Agriculture Organization of the United Nations	2017-2021	http://www.wetmarkworlddev.com/	World Development Article		01/09/2011	3	https://www.10.1016/j.worlddev.2011.09			
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34	Policy document	01/10/2017 00:00	Food and Agriculture Organization of the United Nations	The State	http://www.smallcitiesinternational.com/	Article		01/09/2009	9	https://www.10.1111/j.1468-2427.2009.01111.x			
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39	Policy document	01/10/2017 00:00	Food and Agriculture Organization of the United Nations	El estado	http://www.wetmarkworlddev.com/	World Development Article		01/09/2011	3	https://www.10.1016/j.worlddev.2011.09			
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3	Row Labels	Count of Outlet or Author										
4	National Institute for Health and Care Excellence	715										
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33	International Monetary Fund	8										
34	Pew Research Center	4										
35	Chatham House	2										
36	Oxfam GB Policy & Practice	1										
37	MSF USA	1										
38	CARE International - CARE Insights	1										
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Published in	International Journal of Drug Policy, September 2016
DOI	10.1016/j.drugpo.2016.04.020 ↗
Pubmed ID	27260863 ↗
Authors	Judith Aldridge, David Décary-Héту
Abstract	In spite of globalizing processes 'offline' retail drug markets remain localized and - in recent... [show]

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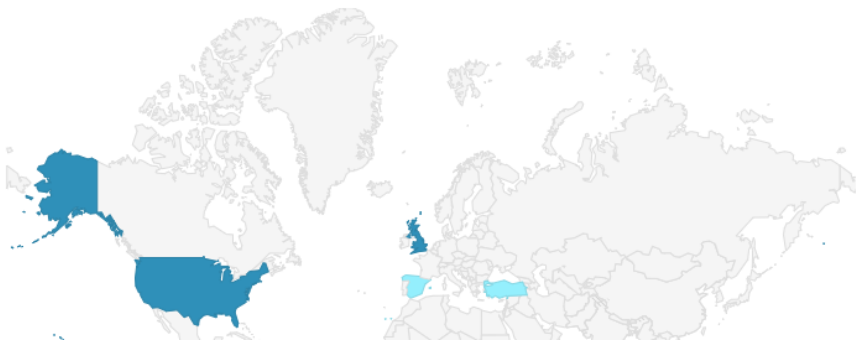
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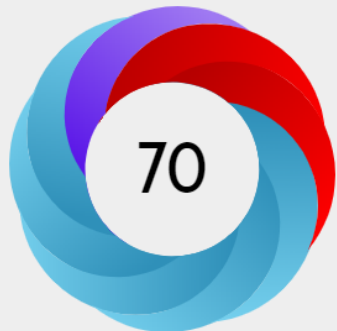
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Pain Management and the Opioid Epidemic: Balancing Societal and Individual Benefits and Risks of Prescription Opioid Use

Cited by National Academies Press on 01 Jan 2017

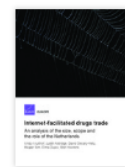
The US National Academies Press (NAP) was created by the National Academy of Sciences, Engineering and Medicine, operating under a charter granted by the Congress of the United States. The NAP publishes on a wide range of topics in science, engineering, and medicine, providing authoritative information on important matters in science and health policy.



Internet-facilitated drugs trade. An analysis of the size, scope and the role of the Netherlands

Cited by overheid.nl on 23 Aug 2016

Overheid.nl is the Dutch government's web portal, allowing access to parliamentary documents and datasets.



TK Bijlage Internet facilitated drugs trade - Rapport - Rijksoverheid.nl

Cited by rijksoverheid.nl on 19 Aug 2016

rijksoverheid.nl is a searchable database of documents produced by the Dutch government.



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[theguardian](#) | Jonathan Haidt and Pamela Paresky | Opinion

News story published by **The Guardian**

We talk incessantly about how to make children more "resilient", but whatever we're doing, it's not working.

Cites the following research outputs [\[show 3 more\]](#):



Incidence, clinical management, and mortality risk following self harm among children and adolescents: cohort study in primary care

Article in British Medical Journal, October 2017



Trends in Emergency Department Visits for Nonfatal Self-inflicted Injuries Among Youth Aged 10 to 24 Years in the United States, 2001-2015

Article in JAMA: Journal of the American Medical Association, November 2017

[Next →](#)



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2019-01-24
12:01 AM UTC



THE HUFFINGTON POST

It's Impossible To Eat Healthfully. Here's Why.

News story published by **Huffington Post**

Increasing awareness of the impact of diet on health has led many people to reconsider what's on their plate.

Cites the following research outputs [\[show 2 more\]](#):



The State of US Health, 1990-2010: Burden of Diseases, Injuries, and Risk Factors.

Article in JAMA: Journal of the American Medical Association, January 2013



Association Between Dietary Factors and Mortality From Heart Disease, Stroke, and Type 2 Diabetes in the United States

Article in JAMA: Journal of the American Medical Association, March 2017

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Browse attention by organisational structure



The University of Manchester



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Quick search...

HIGHLIGHTS

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MENTIONS

JOURNALS

Total mentions
629,747

Outputs with attention
42,996

Total outputs tracked
105,065

SAVE SEARCH

Attention breakdown



Top outputs

- 3,436 Dementia prevention, intervention, and care
Article in **The Lancet**, December 2017
- 2,923 Trends in adult body-mass index in 200 countries from 1975 to 2014: a pooled...
Article in **The Lancet**, April 2016
- 2,498 Efficacy and Safety of an Injectable Combination Hormonal Contraceptive for Men
Article in **The Journal of Clinical Endocrinology & Metabolism**, December 2016
- 2,295 Global, regional, and national incidence, prevalence, and years lived with...
Article in **The Lancet**, August 2015
- 1,979 A new hypothesis of dinosaur relationships and early dinosaur evolution

Most mentioned by

- National Institute for Health and Care Excellence
1,156 total mentions from this **policy source**
- hep_ex
1,142 total mentions from this **Twitter user**
- EurekAlert!
1,133 total mentions from this **news outlet**



The University of Manchester



MY INSTITUTION



To view the associated research outputs and Altmetric data for an author or department/group from your institution, choose a name using the options below.

AUTHORS **63,582**

DEPARTMENTS **1,405**

> **Cultural Institutions**

45 research outputs with mentions



▼ **Faculty of Biology, Medicine and Health**

9,401 research outputs with mentions



> **Cancer Research UK Manchester Institute**

545 research outputs with mentions



> **Faculty Office - FBMH**

561 research outputs with mentions



> **Manchester Cancer Research Centre**

8 research outputs with mentions



> **School of Biological Sciences**

3,699 research outputs with mentions



▼ **School of Health Sciences**

3,552 research outputs with mentions



> **Division of Human Communication, Development & Hearing**

193 research outputs with mentions



> **Division of Informatics, Imaging & Data Sciences**

547 research outputs with mentions



Showing **760 research outputs** from the results of your search query. Of those, **567** have been mentioned.

EXPORT THIS TAB

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Sort by: **Altmetric Attention Score (Highest first)**

Next →



Email for the provision of information on disease prevention and health...
Book in **Cochrane database of systematic reviews**, October 2012



The power of support from companion animals for people living with mental...
Article in **BMC Psychiatry**, February 2018



Ontological security and connectivity provided by pets: a study in the self...
Article in **BMC Psychiatry**, December 2016



Investigating the impact of the English health inequalities strategy: time...
Article in **British Medical Journal**, July 2017



The Future of Home Health Care
Article in **Home Health Care Management & Practice**, October 2016



Reporting of Adverse Events in Published and Unpublished Studies of Health Care...
Article in **PLoS Medicine**, September 2016



Progression of the first stage of spontaneous labour: A prospective cohort...
Article in **PLoS Medicine**, January 2018



Olive Oil, Sunflower Oil or no Oil for Baby Dry Skin or Massage: A Pilot...
Article in **Acta Dermato-Venereologica**, January 2016



A Randomized Trial of Early Endovenous Ablation in Venous Ulceration
Article in **New England Journal of Medicine**, May 2018



Association between psychological health and wound complications after surgery
Article in **British Journal of Surgery**, February 2017



The effect of active video games on cognitive functioning in clinical and non...
Article in **Neuroscience & Biobehavioral Reviews**, July 2017



Psychological morbidity and general health among family caregivers during end...
Article in **Palliative Medicine**, August 2018



Social media in nursing and midwifery education: A mixed study systematic review
Article in **Journal of Advanced Nursing**, August 2018



A mixed study systematic review of social media in nursing and midwifery...
Article in **Journal of Advanced Nursing**, May 2017



Vaginal progesterone prophylaxis for preterm birth (the OPPTIMUM study): a...
Article in **The Lancet**, May 2016

Browse attention by author



The University of Manchester



Exploring data for **all research outputs** from **University of Manchester** by author **Andre Geim**

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Quick search...

[HIGHLIGHTS](#)

[RESEARCH OUTPUTS](#)

[TIMELINE](#)

[DEMOGRAPHICS](#)

[MENTIONS](#)

[JOURNALS](#)

Total mentions
3,761

Outputs with attention
148

Total outputs tracked
224

[SAVE SEARCH](#)

Attention breakdown



Top outputs

- 1,037 Tunable sieving of ions using graphene oxide membranes
Article in **Nature Nanotechnology**, April 2017
- 434 Electric Field Effect in Atomically Thin Carbon Films
Article in **Science**, October 2004
- 352 Proton transport through one-atom-thick crystals
Article in **Nature**, November 2014
- 277 Square ice in graphene nanocapillaries
Article in **Nature**, March 2015
- 203 Sieving hydrogen isotopes through two-dimensional crystals

Most mentioned by

- CondensedPapers**
51 total mentions from this **Twitter user**
- Graphene Times**
46 total mentions from this **blog**
- Phys.org**
45 total mentions from this **news outlet**

Browse attention by custom group



The University of Manchester

Enter one or more department names from your institution.

Enter one or more subjects (e.g. "0607" or "Plant Biology")

Publishers, journals, and collections

PUBLISHER NAME

Enter one or more publisher names

DOI PREFIX

Enter one or more DOI prefixes, e.g., 10.6084

JOURNAL OR COLLECTION

e.g., Physics Letters, arXiv, figshare, 0028-0836

or PASTE A LIST OF JOURNAL ISSNS

HANDLE PREFIX

Enter one or more Handle prefixes.

AFFILIATION (GRID)

Enter the name of an organisation as a GRID ID

WHAT IS THIS?

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WHAT IS THIS?

WHAT IS THIS?

WHAT IS THIS?

Search by scholarly identifiers

You can search for a maximum of 25,000 scholarly identifiers. You can use any of the identifiers supported by Altmetric, including DOIs, ISBNs, PubMed IDs, arXiv IDs, and more. Please enter one scholarly identifier per line.

e.g 10.1080/10298430412331317464

This list contains 0 out of a maximum of 25,000 scholarly identifiers.

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RUN SEARCH

Browse attention of a single output



? About this Attention Score

In the top 5% of all research outputs scored by Altmetric

MORE...

Mentioned by

- 66 news outlets
- 8 blogs
- 2 policy sources
- 255 tweeters
- 14 Facebook pages
- 141 Wikipedia pages
- 1 video uploader

SUMMARY

News

Blogs

Policy documents

Twitter

Facebook

Wikipedia

Video

Dimensions citations

Title Global, regional, and national incidence, prevalence, and years lived with disability for 310 diseases and injuries, 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015

Published in The Lancet, October 2016

DOI 10.1016/s0140-6736(16)31678-6 [↗](#)

Pubmed ID 27733282 [↗](#)

Authors Theo Vos, Christine Allen, Megha Arora, Ryan M Barber, Zulfiqar A Bhutta, Alexandria Brown, Austin... [\[show\]](#)

Abstract Non-fatal outcomes of disease and injury increasingly detract from the ability of the world's... [\[show\]](#)

[↗ View on publisher site](#)

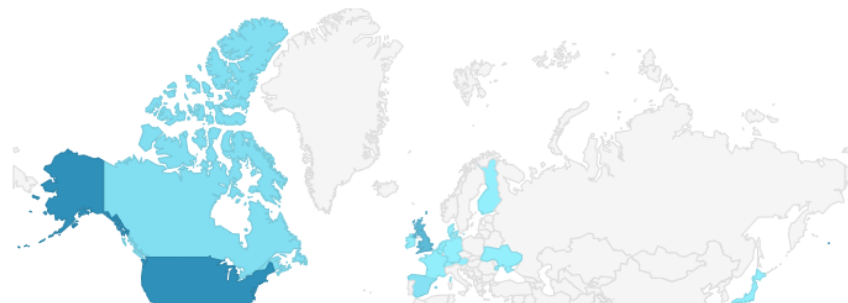
[✉ Alert me about new mentions](#)

TWITTER DEMOGRAPHICS

MENDELEY READERS

ATTENTION SCORE IN CONTEXT

The data shown below were collected from the profiles of **255** tweeters who shared this research output. [Click here to find out more about how the information was compiled.](#)





? About this Attention Score

In the top 5% of all research outputs scored by Altmetric

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SUMMARY

News

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Policy documents

Twitter

Facebook

Wikipedia

Video

Dimensions citations

? So far, Altmetric has seen **142** citations on **141** Wikipedia pages.

Showing items 1-100

1 2



Interstitial lung disease

Cited by user **Doc James** on **04 Feb 2019**

Interstitial lung disease (ILD), or diffuse parenchymal lung disease (DPLD), is a group of lung diseases affecting the interstitium (the tissue and space around the air...



Uterine cancer

Cited by user **Doc James** on **03 Feb 2019**

Uterine cancer, also known as womb cancer, are two types of cancer that develops from the tissue of the uterus, specifically endometrial cancer and uterine sarcoma.



Oral cancer

Cited by user **Doc James** on **19 Sep 2018**

Oral cancer, also known as mouth cancer, is a type of head and neck cancer and is any cancerous tissue growth located in the oral cavity.



Oral cancer

Cited by user **Doc James** on **19 Sep 2018**

Oral cancer, also known as mouth cancer, is a type of head and neck cancer and is any cancerous tissue growth located in the oral cavity.



Falling (accident)

Cited by user **Doc James** on **09 Aug 2018**

About 226 million cases of a significant accidental falls occurred in 2015. These resulted in 527,000 deaths.



Drowning

Cited by user **Doc James** on **09 Aug 2018**

Drowning is defined as respiratory impairment from being in or under a liquid. It is further classified by outcome into death, ongoing health problems, and no ongoing...





? About this Attention Score

In the top 5% of all research outputs scored by Altmetric

MORE...

Mentioned by

- 30 news outlets
- 12 blogs
- 91 tweeters
- 4 patents
- 22 Facebook pages
- 1 Google+ user
- 1 research highlight platform
- 10 video uploaders

SUMMARY

News

Blogs

Twitter

Patents

Facebook

Google+

Research highlights

Video

More...

Title The effects of intermittent or continuous energy restriction on weight loss and metabolic disease risk markers: a randomized trial in young overweight women

Published in International Journal of Obesity, October 2010

DOI 10.1038/ijo.2010.171 [↗](#)

Pubmed ID 20921964 [↗](#)

Authors M N Harvie, M Pegington, M P Mattson, J Frystyk, B Dillon, G Evans, J Cuzick, S A Jebb, B Martin... [\[show\]](#)

Abstract The problems of adherence to energy restriction in humans are well known.

[↗ View on publisher site](#)

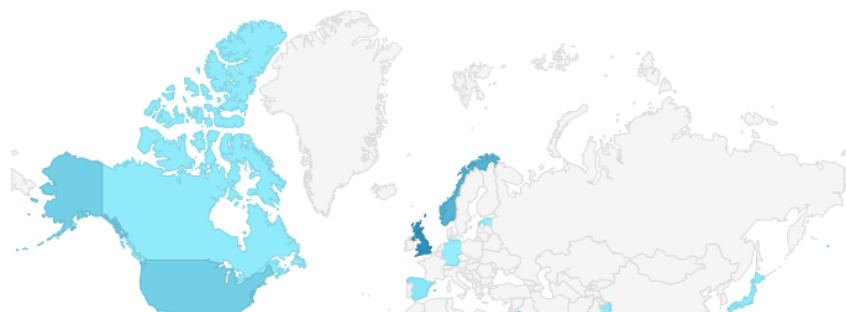
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MORE...

Mentioned by

- 30 news outlets
- 12 blogs
- 91 tweeters
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- 22 Facebook pages
- 1 Google+ user
- 1 research highlight platform
- 10 other platforms

SUMMARY

News

Blogs

Twitter

Patents

Facebook

Google+

Research highlights

Video

More...

? So far, Altmetric has seen 20 videos from 10 users.



5 Ways Intermittent Fasting (KILLS GAINS!)

User **Gravity Transformation - Fat Loss Experts** on YouTube, 19 Jan 2019

These are the 5 intermittent fasting mistakes that kill muscle. Whether you want to bulk up or lose weight you definitely don't...



HOW INSULIN WORKS | INSULIN RESISTANCE

User **BlondeHealth** on YouTube, 19 Aug 2018

In this one I breakdown how insulin works, what insulin resistance is, how to test for it and how to improve insulin...



Emagrecer correndo e meditando ao mesmo tempo

User **Sergio Alves da Silva** on YouTube, 31 May 2018

link para o site: www.chegadedieta.com.br link para o desafio: <http://www.chegadedieta.com.br/2016/06/24/desafio-master-emagreci...>



Aralıklı Oruç Yöntemiyle Kilo Vermek ve Arkasında Yatan Bilimsel Çalışmalar

User **BizSiz Onlar** on YouTube, 23 Apr 2018

Aralıklı Oruç (Intermittent Fasting) ya da Aralıklı Su Orucu, vücut geliştiriciler, kilo vermek isteyenler ve diyabet hastaları...



7 Benefícios do JI, além do emagrecimento

User **Sergio Alves da Silva** on YouTube, 28 Nov 2017

link para o site: www.chegadedieta.com.br link para o desafio: <http://www.chegadedieta.com.br/2016/06/24/desafio-master-emagrecim...>



Intermittent Fasting: Holy Grail or Fail?

User **Mic the Vegan** on YouTube, 21 Oct 2017

A look at studies on how it affects growth hormones, testosterone, fat loss, muscle gain, and whether or not it's an eating...





? About this Attention Score

In the top 5% of all research outputs scored by Altmetric

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- 91 tweeters
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Title The effects of intermittent or continuous energy restriction on weight loss and metabolic disease risk markers: a randomized trial in young overweight women

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Abstract The problems of adherence to energy restriction in humans are well known.

[↗ View on publisher site](#)

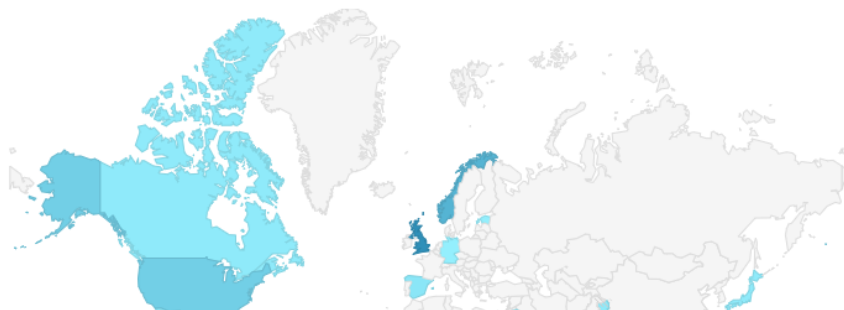
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Using the data



Impact




Reach

Rank	Title	
1.	Experimental evidence of massive-scale emotional contagion through social networks	5044
2.	Variation in Melanism and Female Preference in Proximate but Ecologically Distinct Environments	4823
3.	Artificial sweeteners induce glucose intolerance by altering the gut microbiota	3500
4.	Stimulus-triggered fate conversion of somatic cells into pluripotency	2986
5.	Dogs are sensitive to small variations of the Earth's magnetic field	2956
6.	Christmas 2013: Research: The survival time of chocolates on hospital wards: covert observational study	2734
7.	Epidemiological modeling of online social network dynamics	2392
8.	Searching the Internet for evidence of time travelers	2246
9.	Conscious Brain-to-Brain Communication in Humans Using Non-Invasive Technologies	2160
10.	Were James Bond's drinks shaken because of alcohol induced tremor?	2146

Rank	Title	
1.	Experimental evidence of massive-scale emotional contagion through social networks	5044
2.	Variation in Melanism and Female Preference in Proximate but Ecologically Distinct Environments	4823
3.	Artificial sweeteners induce glucose intolerance by altering the gut microbiota	3500
4.	Stimulus-triggered fate conversion of somatic cells	
5.	Dogs are sensitive to small variations of the Earth's magnetic field	
6.	Christmas 2013: Research: The survival time of covert observational study	
7.	Epidemiological modeling of online social networks	
8.	Searching the Internet for evidence of time travel	
9.	Conscious Brain-to-Brain Communication in Humans Using Transcranial Magnetic Stimulation Technologies	
10.	Were James Bond's drinks shaken because of a	



Although association preferences documented in our study theoretically could be a consequence of either mating or shoaling preferences in the different female groups investigated (should we cite the crappy Gabor paper here?), shoaling preferences are unlikely drivers of the documented patterns both because of evidence from previous research and inconsistencies with *a priori* predictions. Our methods closely followed those of published mate choice experiments in this system (Tobler et al. 2009a,b; Plath et al. 2013),



Dave Harris
@davidjayharris

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Not sure how this made it through proofreading, peer review, and copyediting. Via onlinelibrary.wiley.com/doi/10.1111/et... #addedvalue

9:54 PM - 10 Nov 2014

4,275 2,510

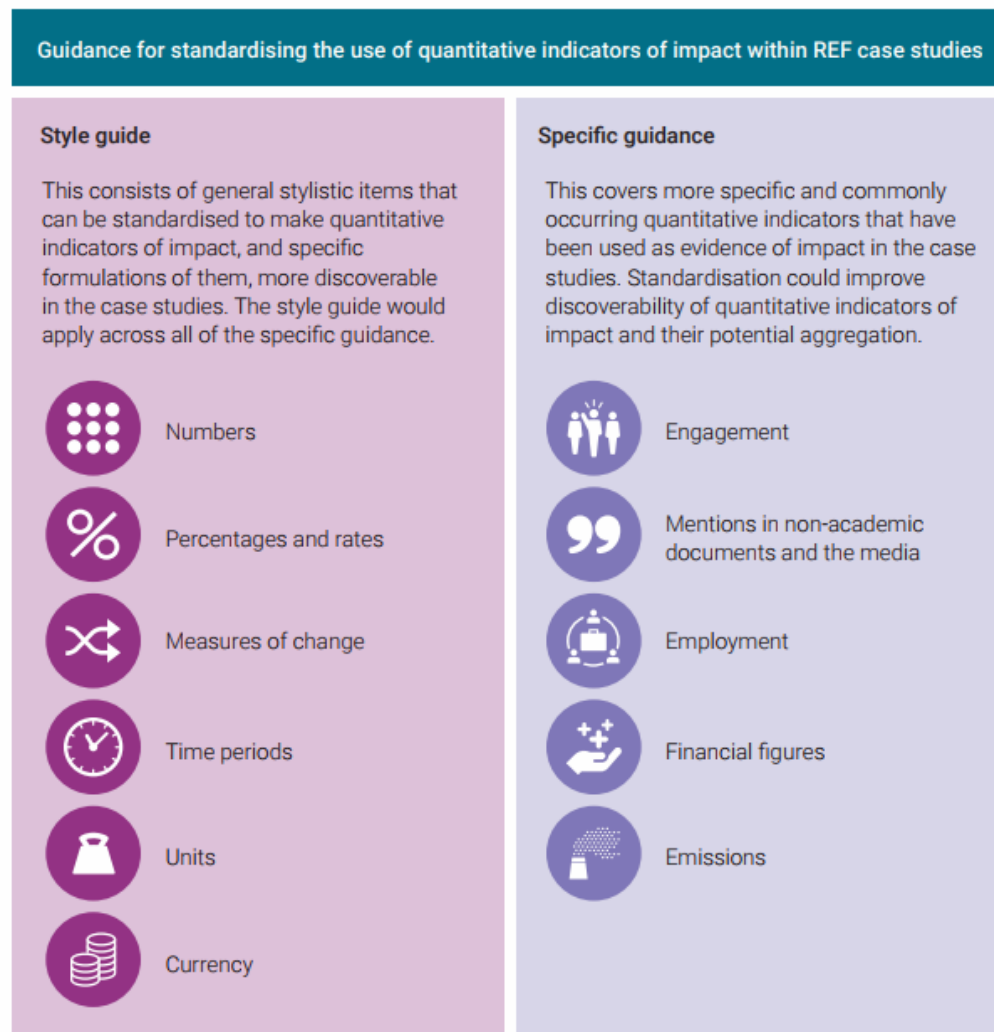
Identifying potential REF outputs

DOI	Publication Date	Altmetric Attention	Number of Mentions	Title	Journal/Collection Title	Authors	Department	Output Type
10.1038/nnano.2017.21	03/04/2017	1015	253	Tunable sieving of ions	Nature Nanotechnology	Cherian, Christie; Willis	Chemical Engineering;	Article
10.1371/journal.pbio.20	29/06/2017	400	84	Identifiers for the 21st	PLoS Biology	Jupp, Simon; Soiland-R	Information Management	Article
10.1038/nature14015	26/11/2014	343	448	Proton transport through	Nature	Dryfe, Robert; Mishchenko	Condensed Matter, Atoms	Article
10.1038/nature14295	25/03/2015	269	344	Square ice in graphene	Nature	Geim, Andre; Raveendran	Condensed Matter, Atoms	Article
10.1080/14693062.2014.	06/12/2014	180	52	All adrift: aviation, ship	Climate Policy	Larkin, Alice	School of Mechanical, &	Article
10.1016/j.apenergy.201	01/12/2014	119	174	Life cycle environment	Applied Energy	Azapagic, Adisa; Stamf	Chemical Engineering;	Article
10.1038/ncomms5843	11/09/2014	118	190	Impermeable barrier for	Nature Communication	Geim, Andre; Su, Yang; Condensed Matter, Atoms	Article	Article
10.1111/wrr.12460	02/08/2016	102	10	Whole genome microar	Wound Repair & Regen	Ashrafi, Mohammed H	School of Medical Scier	Article
10.1098/rspa.2016.0054	01/07/2016	100	23	H2 production by the pl	Proceedings of the Roy	Hardacre, Christopher	Chemical Engineering;	Article
10.1080/14693062.2017.1346498		74	19	What if negative emiss	Climate Policy	Larkin, Alice; Anderson	School of Mechanical, &	Article
10.1126/science.124571	14/02/2014	74	550	Precise and Ultrafast M	Science	Carbone, Paola; Geim, &	Chemical Engineering;	Article
10.1038/ncomms12168	07/07/2016	73	68	Van der Waals pressure	Nature Communication	Carbone, Paola; Dix, Ja	Chemical Engineering;	Article
10.1126/science.aan527	27/10/2017	71	43	Size effect in ion trans	Science	Esfandiari, Ali; Kalon, G	Condensed Matter, Atoms	Article
10.1016/j.enpol.2013.1	01/05/2014	61	120	Securing a bioenergy fu	Energy Policy	Welfle, Andrew; Gilber	School of Mechanical, &	Article
10.1039/c6sc03457h	02/09/2016	59	33	Solvation and surface e	Chemical Science	Cruz Cabeza, Aurora	Faculty of Science and I	Article
10.2337/dc14-0955	13/10/2014	58	25	Contributory Factors to	Diabetes Care	Cooper, Glen	School of Mechanical, &	Article
10.1016/j.biombioe.201	01/10/2015	48	126	Maximizing the greenh	Biomass & Bioenergy	Gilbert, Paul; Thornley,	School of Mechanical, &	Article
10.1098/rsif.2017.0159	01/07/2017	46	17	The role of the leading	Journal of The Royal So	Nabawy, Mostafa; Crow	School of Mechanical, &	Article
10.1038/ncomms7010	16/01/2015	41	100	Capacitance-modulate	Nature Communication	Persaud, Krishna	Faculty of Science and I	Article
10.1098/rsif.2014.0953	06/01/2015	35	37	Predicting power-optin	Journal of The Royal So	Parslew, Ben	School of Mechanical, &	Article
10.1016/j.envsci.2016.0	01/05/2016	33	92	A nexus perspective on	Environmental Science	Hoolohan, Claire; Larkir	School of Mechanical, &	Article
10.1002/aenm.2016012	03/11/2016	31	16	2D Crystals Significan	Advanced Energy Mate	Holmes, Stuart; Lozada	Chemical Engineering;	Article
10.5194/amt-8-3315-20	14/08/2015	28	7	Retrieval and validatio	Atmospheric Measurem	Martin, Philip	Chemical Engineering;	Article
10.1371/journal.pone.0	20/01/2015	28	18	Acute Cutaneous Wour	PLoS ONE	Bayat, Ardeshir; Alonsc	Faculty of Science and I	Article
10.1364/oe.23.012562	16/06/2015	26	25	Tailored optical vector	Optics Express Online	Allegre, Olivier	School of Mechanical, &	Article
10.1038/nclimate2532	25/03/2015	23	17	Shipping charts a high c	Nature Climate Change	Traut, Michael; Mander	School of Mechanical, &	Article
10.1088/1748-9326/9/1,	01/01/2014	23	63	Transitions in pathway	Environmental Researc	Larkin, Alice; Lamb, Wil	School of Mechanical, &	Article
10.1371/journal.pcbi.10	04/02/2016	22	22	The Development of Cc	PLoS Computational Biology			Article
10.1016/j.apenergy.201	01/01/2014	22	59	Propulsive power contr	Applied Energy	Traut, Michael; Gilbert,	School of Mechanical, &	Article
10.1186/s12918-015-017	11/07/2015	21	63	SEEK: a systems biology	BMC Systems Biology	Owen, Stuart; Snoep, J	Information Management	Article
10.1007/s11367-014-082	27/11/2014	21	87	Environmental impact	International Journal of Life Cycle Assessment			Article
10.1098/rsta.2014.0050	28/12/2014	19	13	Climate engineering: e	Philosophical Transactions of the Royal Society A: Mathematical, Physi			Article
10.7717/peerj.2857	12/01/2017	19	10	Phalangeal joints kinen	PeerJ	Ren, Lei	School of Mechanical, &	Article
10.1016/j.envsci.2014.0	01/05/2014	18	54	Emissions associated w	Environmental Science & Policy			Article
10.7717/peerj.3416	23/06/2017	17	6	A study of the progress	PeerJ	Withers, Philip; Mcdon	School of Mechanical, &	Article
10.1080/17583004.2015.	06/03/2015	17	19	Technologies for the hi	Carbon Management	Mander, Sarah; Larkin, &	School of Mechanical, &	Article
10.1007/s11367-016-102	02/02/2016	17	50	Life cycle environment	International Journal of	Azapagic, Adisa	Chemical Engineering;	Article

DOI	Publication Date	Altmetric Attention	Number of Mendeley	Title	Journal/Collection Title	Authors	Department	Output Type
10.1002/14651858.cd000000	06/03/2015	600	106	Fenamate NSAIDs inhibit	Nature Communications	Daniels, Michael; Bagnall, David	Lab Group - Allan, Stuart	Article
10.1002/14651858.cd000000	04/09/2015	589	27	Ontological security and	BMC Psychiatry	Rushton, Kelly; Lovell, Helen	Nursing & Midwifery; T	Article
10.1016/j.ejps.2014.02.004	14/03/2014	493	11	Incidence, clinical man	British Medical Journal	Webb, Roger; Carr, Matthew	Division of Informatics, I	Article
10.1002/14651858.cd000000	21/04/2015	444	6	The global state of psor	British Journal of Derm	Ashcroft, Darren; Griffiths	Division of Pharmacy & C	Article
10.1002/14651858.cd000000	01/01/2010	393	35	Computerised cognitive	British Medical Journal	Gask, Linda; Knowles, Susan	Division of Population & C	Article
10.1038/nrclinonc.2016.000	11/10/2016	365	170	Tissue adhesives for cl	Cochrane database of s	Dumville, Joanne; Riley, Philip	School of Medical Scier	Article
10.1002/14651858.cd000000	28/11/2014	278	68	Water fluoridation for	Cochrane database of systematic reviews			Article
10.1002/14651858.cd000000	22/01/2016	277	118	Powered versus manu	Cochrane database of s	Worthington, Helen; Glazier, Jocelyn	School of Dentistry; Fac	Article
10.1002/anie.201403333	09/06/2014	252	35	Olive Oil, Sunflower Oi	Acta Dermato-Veneroe	Lavender, Tina; Cooke, Andrew	School of Nursing, Mid	Article
10.1016/j.ijmedinf.2014.03.004	31/03/2014	212	24	CATALISE: A Multinatio	PLoS ONE	Adams, Catherine; Conboy, Peter	The University of Manc	Article
10.1371/journal.pone.0111111	11/03/2015	204	57	Spontaneous mutation	PLoS Biology	McBain, Andrew; Richman, David	Division of Pharmacy & C	Article
10.1177/2331216514550000	08/09/2014	203	8	Association between p	British Journal of Surge	Cullum, Nicola; Sutton, Peter	Division of Population & C	Article
10.1016/s0140-6736(16)00000-0	23/02/2016	193	33	Associations between i	PLoS Medicine	Elvey, Rebecca; Kristen, David	Division of Population & C	Article
10.1038/nnano.2016.28	30/01/2017	184	70	Xylitol?containing prod	Cochrane database of s	Riley, Philip; Worthington, Helen	School of Medical Scier	Article
10.1021/acs.nano.5b01404	26/05/2015	178	460	Honey as a topical treat	Cochrane database of s	Dumville, Joanne; Cullum, Nicola	School of Nursing, Mid	Article
10.1016/j.dental.2013.11.004	01/02/2014	176	35	The effect of active vid	Neuroscience & Biobeh	Firth, Joseph; Stanmore, Emma	Nursing & Midwifery; T	Article
10.1016/j.ejps.2013.09.004	19/09/2013	143	40	Tumor-homing peptide	Science Advances	Glazier, Jocelyn; Aplin, Peter	Tissue Systems; Faculty	Article
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10.1002/14651858.cd000000	05/01/2016	142	16	Depressive symptomat	International Psychoge	Challis, David; Giebel, Peter	CPSRU; School of Nursi	Article
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10.1038/nnano.2014.22	06/10/2014	111	11	Fluoride mouthrinses f	Cochrane database of s	Walsh, Tanya; Worthington, Helen	School of Dentistry; Fac	Article
10.1016/j.heares.2013.06.004	10/08/2013	111	6	Examining variations in	British Medical Journal	Kontopantelis, Evangelos	Division of Informatics, I	Article
10.1021/jm500973a	02/10/2014	110	12	Antiseptics and Antibic	JAMA Dermatology	Dumville, Joanne; Norrish, David	School of Medical Scier	Article
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10.1016/j.pec.2014.01.004	30/01/2014	100	48	Dressings and topical a	Cochrane database of s	Westby, Maggie; Dumville, Joanne	Nursing & Midwifery; T	Article
10.1038/nrclinonc.2016.000	01/06/2016	100	11	The contributions of fai	Palliative Medicine	Grande, Gunn; Pilling, Peter	Nursing & Midwifery; T	Article

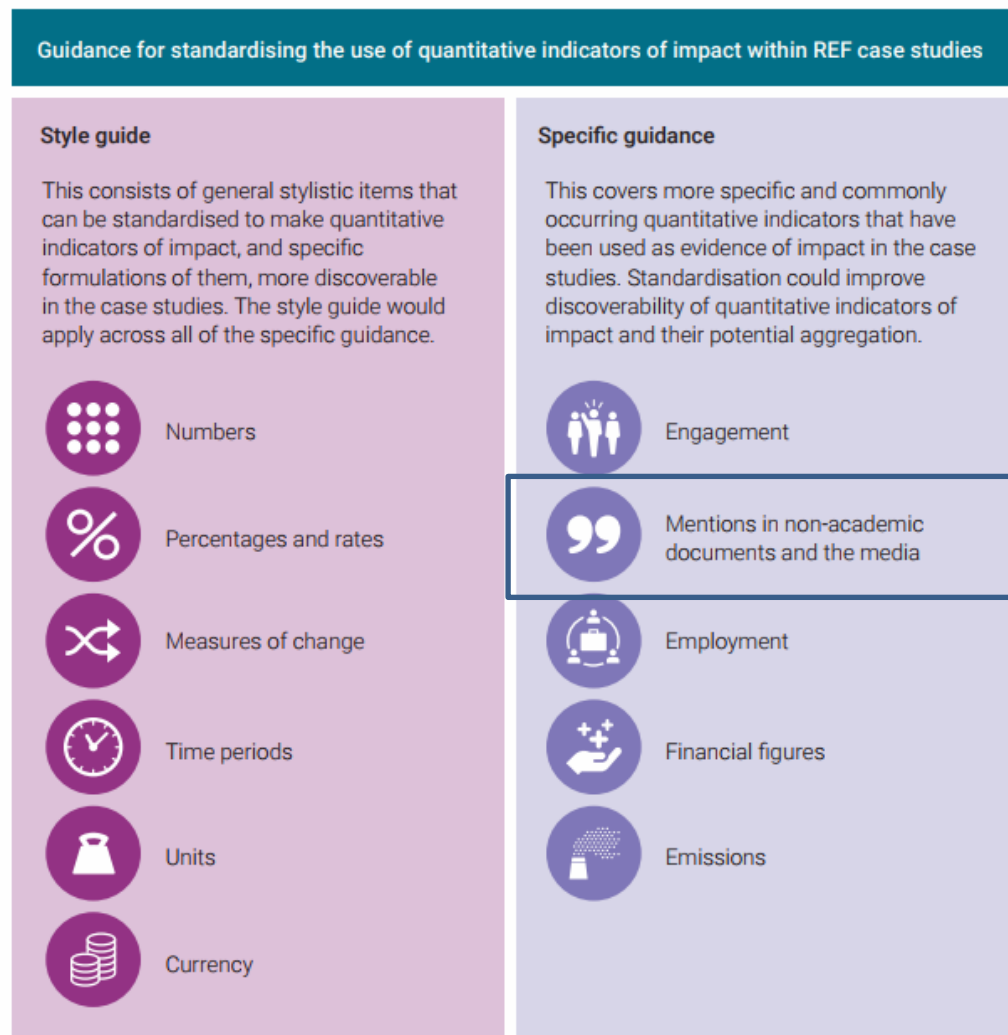
Supporting REF impact case studies

Figure ES.1 The two categories of standards proposed and the respective areas covered by the guidance



Source: RAND Europe analysis

Figure ES.1 The two categories of standards proposed and the respective areas covered by the guidance



Source: RAND Europe analysis

2 case studies

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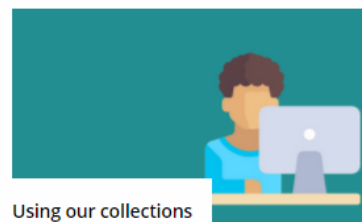
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