Wikipedia and Medicine



James Heilman MD, CCFP(EM), Wikipedian Nov. 4th, 2017

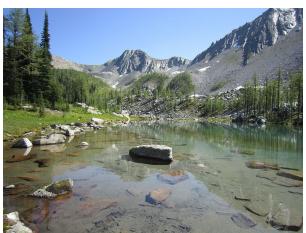


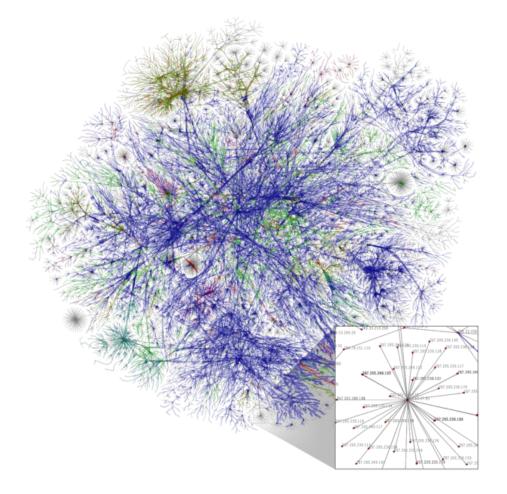


A bit about myself

- Small town ER doc
- Affiliated with UBC but long way away (~800 Km)
- Became involved >10 years ago after coming across a poor quality medical article
- An active volunteer ever since



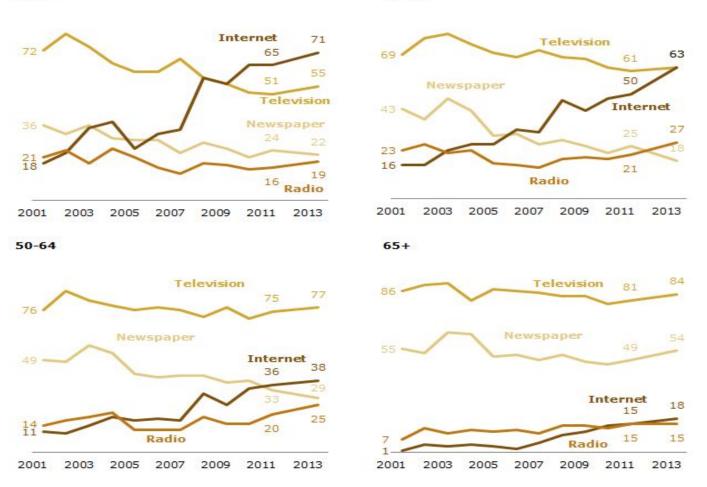






Main Source for National and International News

18-29 30-49



SEARCHES ONLINE











PATIENTS SPEND MORE TIME ONLINE THAN WITH THE DOCTOR

In a year, the average American visits the doctor 3 times, but spends more than 52 hours on the Internet looking for health information.



Medical education

- 70% digital / 30% paper (2015 US)
- 30% of students do not read textbooks, whether digital or not (2017)
- Informal survey of ~20 UCSF students, one had bought a textbook (but had not opened it)



Some numbers

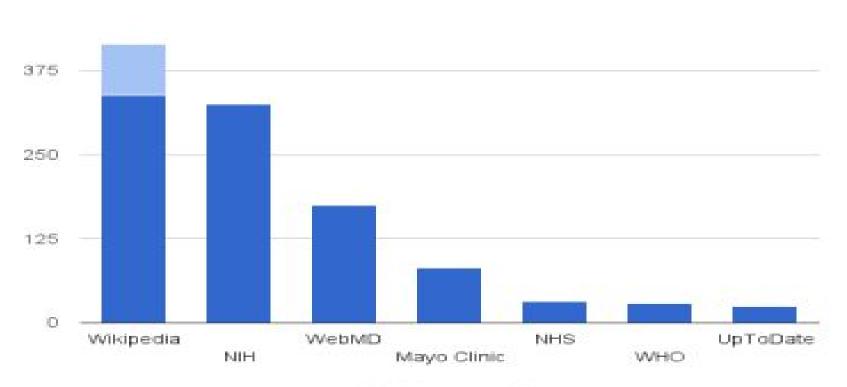
- 5th most popular website globally (first four Google, Youtube, Facebook, and Baidu)
- ~500 million people visit per month via
 ~1.4 billion devices
- 15 billion page of content
- > half via mobile

Medical views (2013)

~7 billion pageview ~160,000 article

- 3% of all pageviews / 0.5% of articles
- Half of views are for English
- Next most popular languages: Spanish and German (Dutch is 10th)
- > 60% of views by mobile

500



J Med Internet Res. 2015 Mar 4;17(3):e62. doi: 10.2196/jmir.4069.

Wikipedia and medicine: quantifying readership, editors, and the significance of natural language.

Heilman JM¹, West AG.

Medical stats

- 50% to 100% of physicians use WP
- 35 to 70% of **pharmacists** admit to its use
- 94% of medical students use WP
- 20 to 60% of journalists
- Frequent use by policy makers

Why do 94% of medical students use Wikipedia?

- Easy access
- Understandable

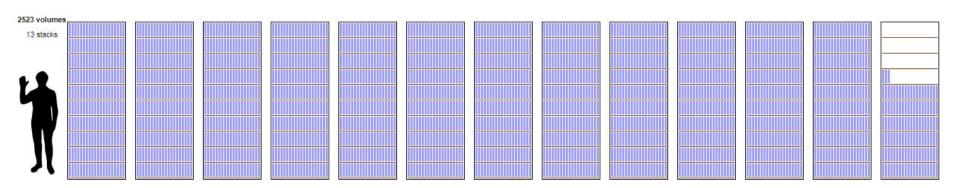
Med Teach. 2013 Apr;35(4):337. doi: 10.3109/0142159X.2012.737064. Epub 2012 Nov 8.

Wikipedia use amongst medical students - new insights into the digital revolution.

Does Wikipedia Cover Nearly Everything?



Size of the English version as of Jan 2017⁽⁹⁾

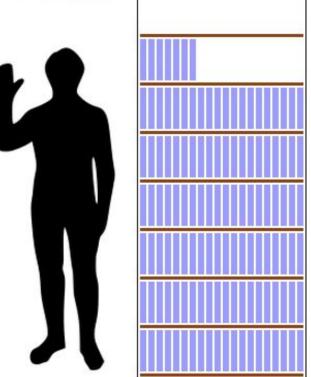


- Largest reference work on the Internet
- Equivalent to ~2520 volumes of the Encyclopedia
 Britannica
- ~43 million articles in 295 languages (5.5 million in English)

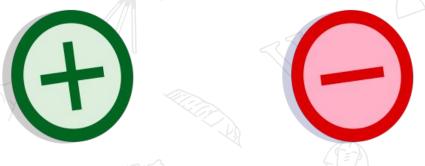
Size of the medical content across all languages in 2013

126.9 volumes

- Equivalent to ~127
 volumes of the
 Encyclopedia
 Britannica
- ~5,000 articles in Dutch



Does Wikipedia Have a Huge Number of Editors?



Wikipedia generally

Anyone can edit but not everyone does!

- 80,000 people contribute >5 edits a month
- 12,000 people contribute more than 100 edits a month
- Generally volunteers and working for free
- Self governing communities

Medical editors (2016)

270 editors made more than 250 edits

- Numbers level between 2008-2016
- 224,000 accounts made 1.1 M edits
- Half in English (6 in Dutch)

Who are they?

- Half healthcare professionals
- 52% Masters, PhD or MD
- 33% Bachelor's degree
- 80% male, 10% female, 10% would rather not say

Why do they edit?

Learning

Positive about Wikipedia

Responsibility

Enjoyable

Is Wikipedia Reliable?



[citation needed]

- Depends on definition and compared to what
- There is no perfect source
- Verifiability not Truth
- As accurate as Britannica in 2005 and 2012
- Internal peer review
- Could WP be better? Definitely!

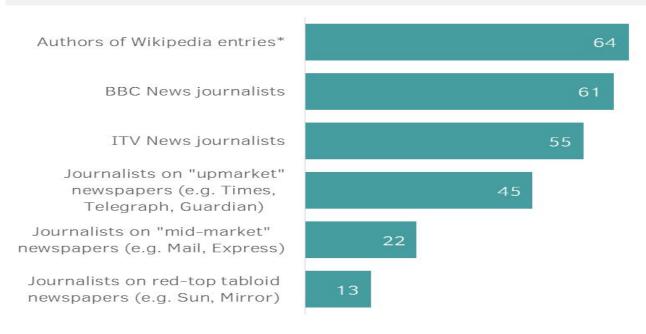




Public Perception of Reliability

Trust in Wikipedia authors compared to journalists

Figures show percentages saying they trust each group to tell the truth "a great deal" or "a fair amount"

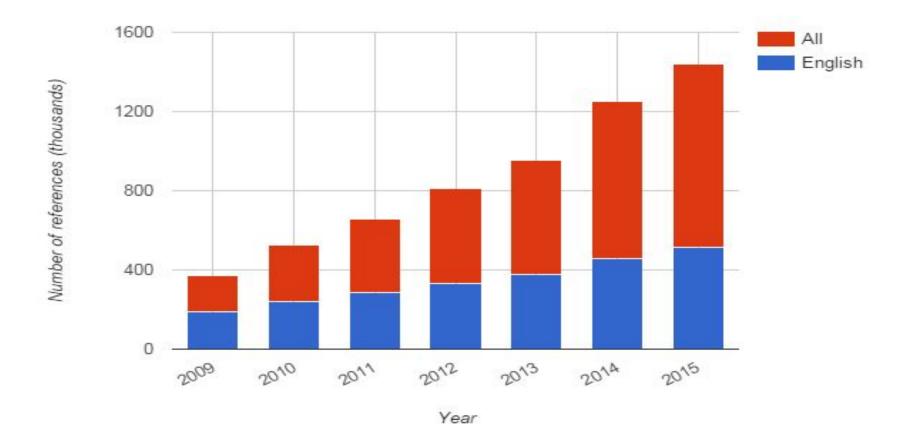


^{*} Survey for Wikipedia authors conducted 7-8 August 2014; survey for journalists conducted 16-17 October 2013



Better than UpToDate/Textbooks for Medical Students

- Students given a quiz (30 min)
- Randomized to either UpToDate, textbook, or Wikipedia (30 min)
- Retested on same test (30 min)
- WP resulted in better test scores
- WP had better search and interlinking



Causes [edit source]

Ge

Main article: Causes of schizophrenia

A combination projectic and environmental factors play a role in the development of schizophrenia. [9][14] People with a family history of schizophrenia who have a transient project and environmental factors play a role in the development of schizophrenia. [9][14] People with a family history of schizophrenia who have a transient project and environmental factors play a role in the development of schizophrenia. [9][14] People with a family history of schizophrenia who have a transient project proj

estimates vary because of the difficulty in separating genetic and environmental influences; [56] averages of 0.80 have been given. [57] The greatest single g schizophrenia is having a first-degree relative with the disease (risk is 6.5%); more than 40% of monozygotic twins of those with schizophrenia are also a great of the difficulty in separating genetic and environmental influences; [56] averages of 0.80 have been given. [57] The greatest single g schizophrenia is having a first-degree relative with the disease (risk is 6.5%); more than 40% of monozygotic twins of those with schizophrenia are also a great of the difficulty in separating genetic and environmental influences; [56] averages of 0.80 have been given. [57] The greatest single great of the difficulty in separating genetic and environmental influences; [58] averages of 0.80 have been given. [57] The greatest single great of the difficulty in separating genetic and environmental influences; [58] averages of 0.80 have been given. [57] The greatest single great of the g

Many genes are believed to be involved in schizophrenia, each of small effect and unknown transmission and expression. [13][14] Many possible candidates have been proposed, including specific copy number variations, *NOTCH4*, and histone protein loci. [58] A number of genome-wide associations such as zinc finger protein 804A have also been linked. [59] There appears to be overlap in the genetics of schizophrenia and bipolar disorder. [60] Evidence is emerging that the genetic architecture of schizophrenia involved both common and rare risk variation. [61]

Assuming a hereditary basis, one question from evolutionary psychology is why genes that *increase* the likelihood of psychosis evolved, assuming the condition would have been maladaptive from an evolutionary point of view. One idea is that genes are involved in the evolution of language and human nature, but to date such ideas remain little more than hypothetical in nature.^{[62][63]}

Environment [edit source]

Environmental factors associated with the development of schizophrenia include the living environment, drug use, and prenatal stressors.[9]

Parenting style seems to have no major effect, although people with supportive parents do better than those with critical or hostile parents. [14] Childhood trauma, death of a parent, and being bullied or abused increase the risk of psychosis. [64] Living in an urban environment during childhood or as an adult has consistently been found to increase the risk of schizophrenia by a factor of two, [9][14] even after taking into account drug use, ethnic group, and size of social group. [65] Other factors that play an important role include social isolation and immigration related to social adversity, racial discrimination, family dysfunction, unemployment, and poor housing conditions. [14][66]

It has been hypothesized that in some people, development of schizophrenia is related to intestinal tract dysfunction such as seen with non-celiac gluten sensitivity or abnormalities in the intestinal flora. [67] A subgroup of persons with schizophrenia present an immune response to gluten different from that found in people with celiac, with elevated levels of certain serum biomarkers of gluten sensitivity such as anti-gliadin IgG or anti-gliadin IgA antibodies. [68]

Substance use [edit source]

About half of those with schizophrenia use drugs or alcohol excessively. [69] Amphetamine, cocaine, and to a lesser extent alcohol, can result in a transient stimulant psychosis or alcohol-related psychosis that presents very similarly to schizophrenia. [14][70] Although it is not generally believed to be a cause of the illness, people with schizophrenia use nicotine at much higher rates than the general population. [71]

Alcohol abuse can occasionally cause the development of a chronic, substance-induced psychotic disorder via a kindling mechanism.^[72] Alcohol use is not associated with an earlier onset of psychosis.^[73]

Most used journals















Wikipedia's Peer Review





- Article rating scale
- Medicine has 63 FAs and 212 GAs
 - <1% of all articles</p>
 - 40% of top importance articles

Open Medicine

A peer-reviewed, independent, open-access journal.

- Bringing Wikipedia's medical articles to FA followed by publication under the authors real names
- First article published by Open Medicine
- PLOS Medicine and Epilepsia interested
- Academic credit for Wikipedians

Review Heilman et al.

Dengue fever: a Wikipedia clinical review

James M Heilman, Jacob De Wolff, Graham M Beards, Brian J Basden

ABSTRACT

Dengue fever, also known as breakbone fever, is a mosquito-borne infectious tropical disease caused by the dengue virus. Symptoms include fever, headache, muscle and joint pains, and a characteristic skin rash that is similar to measles. In a small proportion of cases, the disease develops into life-threatening dengue hemorrhagic fever, which results in bleeding, thrombocytopenia, and leakage of blood plasma, or into dengue shock syndrome, in which dangerously low blood pressure occurs. Treatment of acute dengue fever is supportive, with either oral or intravenous rehydration for mild or moderate disease and use of intravenous fluids and blood transfusion for more severe cases. Along with attempts to eliminate the mosquito vector, work is ongoing to develop a vaccine and medication targeted directly at the virus.

James M. Heilman, MD, CCFP(EM), is the Emergency Department Head at the East Kootenay Regional Hospital, Cranbrook, British Columbia, and is also a Clinical Instructor in the Department of Emergency Medicine, The University of British Columbia, Vancouver, British Columbia, Jacob De Wolff, MRCP(UK), is a Consultant in Acute Medicine and High Dependency Medicine at Northwick Park Hospital, Harrow, Middlesex, UK. Graham M. Beards, DSc, FIBMS, is a Clinical and Biomedical Scientist in blood science at Walsall Manor Hospital, Walsall, UK. Brian J. Basden, BSc, is a Researcher with Battelle Memorial Institute, Atlanta, Georgia.

Competing Interests: James Heilman and Brian Basden are board members of the Wiki Project Med Foundation. Jacob De Wolff is a board member of Wiki Project Med Foundation and the founder of WikiProject Medicine. Graham Beards is a Featured Article Coordinator for the English Wikipedia. No financial competing interests declared.

Funding: No funding was received for the preparation of this article.

Correspondence: Dr. James Heilman, East Kootenay Regional Hospital, 13-24th Avenue N, Cranbrook BC V1C 3H9; jmh649@gmail.com

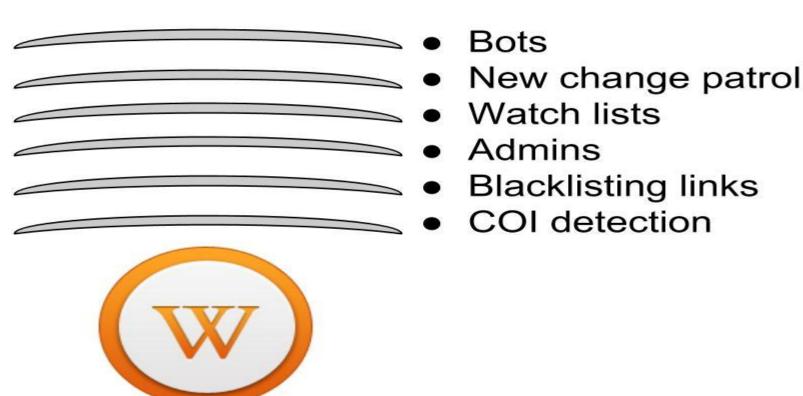
➤ Dengue Fever, ALSO KNOWN AS BREAKBONE FEVER, is a mosquito-borne infectious tropical disease caused by the dengue virus. This disease occurs primarily in have symptoms recover spontaneously.³ In a small proportion of cases, the disease progresses to a more severe form, life-threatening dengue hemorrhagic fever,

Wiki Journal of Medicine

- Open access journal
- Started in March 2014
- No associated costs
- Has DOI and ISSN
- ~20 articles published
- Pubmed indexing in the works
- Hosted on Wikiversity but maybe one day an independent sister project?



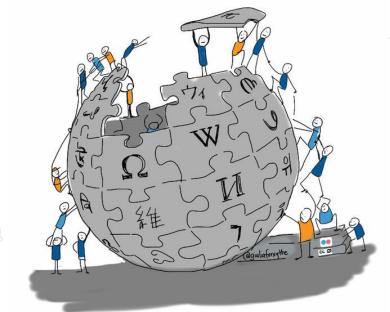
Layers of quality assurance





- Used by a lots of schools to detect "copy and paste" issues
- Giving us free access
- Bot built that checks each new edit over a certain size since Aug 2014
- Flags concerns for human follow up

Collaborations





3 Steps

Article improvement



Translation

Access

Two article tracks



- Short
- 3 to 4 paragraphs
- Leads of English articles
 ~750 words
- Goal 1,000 (912)



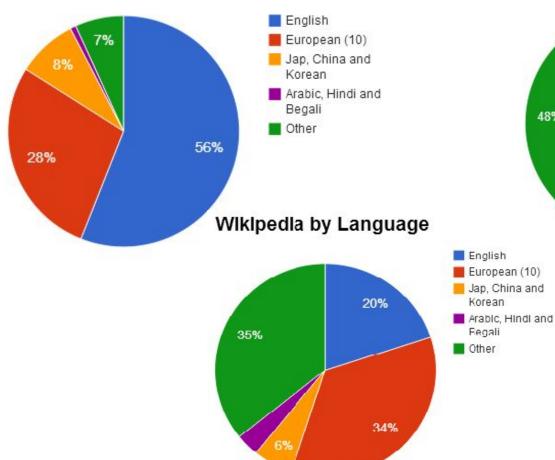
- Brought to GA/FA
- 2,500-10,000 words
- Goal 100 (33)



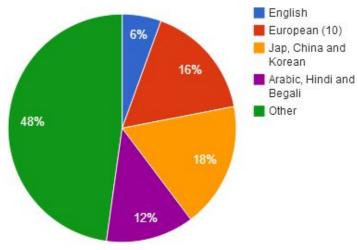
- Translation
 - 100+ languages
 - >5 million words



Internet by Language



World By Language



European: German, French, Italian, Spanish, Dutch, Polish, Russian, Portuguese, Swedish

Why is this needed?

- Every day thousands die for a lack of health care and a major factor is poor access to understandable information
 - More than half of people from Africa said that a friend or family member could have been saved if they'd had information in their own language
 - Many believe fluids should be withheld if their child has diarrhea
- Issue: Little health care content exists in most languages



Writing simple articles

- Simple is Key
- 3 or 4 paragraphs
- Every sentence referenced
- Topics
 - Diseases
 - Essential medicines
 - Sanitation / engineering
- Working with a number of medical schools to improve content

Schizophrenia is a mental disorder characterized by abnormal social behavior and failure to understand what is real.^[2] Common symptoms include false beliefs, unclear or confused thinking, hearing voices that others do not hear, reduced social engagement and emotional expression, and a lack of motivation.^{[2][3]} People with schizophrenia often have additional mental health problems such as anxiety disorders, major depressive illness, or substance-use disorders.^[11] Symptoms typically come on gradually, begin in young adulthood, and last a long time.^{[3][5]}

personality disorder" - conditions with which it is often confused in public perception. [14]

The causes of schizophrenia include environmental and genetic factors.^[4] Possible environmental factors include being raised in a city, cannabis use, certain infections, parental age, and poor nutrition during pregnancy.^{[4][12]} Genetic factors include a variety of common and rare genetic variants.^[13] Diagnosis is based on observed behavior, the person's reported experiences, and reports of others familiar with the person.^[5] During diagnosis a person's culture must also be taken into account.^[5] As of 2013 there is no objective test.^[5] Schizophrenia does not imply a "split personality" or "multiple

The mainstay of treatment is antipsychotic medication, along with counselling, job training, and social rehabilitation. ^{[2][4]} It is unclear whether typical or atypical antipsychotics are better. ^[15] In those who do not improve with other antipsychotics clozapine may be tried. ^[4] In more serious situations – where there is risk to self or others – involuntary hospitalization may be necessary, although hospital stays are now shorter and less frequent than they once were. ^[16]

About 0.3–0.7% of people are affected by schizophrenia during their lifetimes. [9] In 2013 there were an estimated 23.6 million cases globally. [17] Males are more often affected than females. [2] About 20% of people do well, and a few recover completely. [5] Social problems, such as long-term unemployment, poverty, and homelessness are common. [5][18] The average life expectancy of people with the disorder is ten to twenty-five years less than for the general population. [7] This is the result of increased physical health problems and a higher suicide rate (about 5%). [9][19] In 2015 an estimated 17,000 people worldwide died from behavior related to, or caused by, schizophrenia. [10]

1. A Jones, Daniel (2003) [1917], Peter Roach, James Hartmann and Jane Setter, eds., English Pronouncing Dictionary,

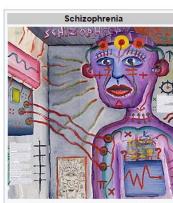
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- Cambridge: Cambridge University Press, ISBN 3-12-539683-2
- 2. ^ a b c d e f "Schizophrenia Fact sheet N°397" 4. WHO. September 2015. Retrieved 3 February 2016.
- 3. ^ a b o d e "Schizophrenia" B. National Institute of Mental Health. January 2016. Retrieved 3 February 2016. 4. ^ a b o d e f g h Owen, MJ; Sawa, A: Mortensen, PB (14 January 2016). "Schizophrenia.", Lancet. PMID 26777917 B.
- doi:10.1016/S0140-6736(15)01121-6@.

 5. A a b c d e f g American Psychiatric Association. Diagnostic and Statistical Manual of Mental Disorders (5th ed.). Arlington:
- American Psychiatric Publishing. pp. 101–05. ISBN 978-0890425558.

 6. ^Ferri, Fred F. (2010). Ferri's differential diagnosis: a practical guide to the differential diagnosis of symptoms, signs, and
- dinical disorders (2nd ed. ed.). Philadelphia, PA: Elsevier/Mosby. p. Chapter S. ISBN 0323076998.
 7. ^ a b Laursen TM, Munk-Olsen T. Vestergaard M (March 2012). "Life expectancy and cardiovascular mortality in persons with
- schizophrenia". Current opinion in psychiatry. 25 (2): 83–8. PMID 22249081 & doi:10.1097/YCO.0b013e32835035ca & . 8. ^ a b "Medicinal treatment of psychosis/schizophrenia" & .www.sbu.se. Swedish Agency for Health Technology Assessment and
- Assessment of Social Services. 2012-11-21. Retrieved 2017-06-26.

 9. ^ a b c van Os J, Kapur S (August 2009). "Schizophrenia" (PDF). Lancet. 374 (9690): 635–45. PMID 19700006 gr.
- A * B * C van Os J, Kapur S (August 2009). "Schizophrenia" (PDF). Lancet. 374 (9690): 635–45. PMID 19700006 doi:10.1016/S0140-6736(09)60995-8 g/.
- 10. ^ a b GBD 2015 Mortality and Causes of Death, Collaborators. (8 October 2016). "Global, regional, and national life expectancy,



Self-portrait of a person with schizophrenia, representing that individual's perception of the distorted experience of reality in the disorder

Pronunciation / skrtsə fri niə, skrdz-, -ou-, - freniə/[1]

Specialty Psychiatry

Symptoms False beliefs, confused thinking, hearing voices others do not[2][3]

Usual onset Typically early adulthood^[3]

Duration Chronic^[3]

Causes Environmental and genetic factors^[4]

Risk factors Cannabis use, problems during pregnancy, being raised in a city, older father^[4]

Diagnostic Based on observed behavior, reported experiences, and reports of others familiar with the person^[5]

conditions disease, mood disorders, autism^[0]

Treatment Counselling, job training^{[4][2]}

Prognosis 18–20 years shorter life expectancy^{[7][8]} due to increases in

suicide, heart and lifestyle disease^[8]

Antipsychotics[4]

Substance abuse, Huntington's

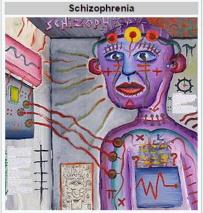
Frequency ~0.5%^[9]
Deaths ~17,000 (2015)^[10]

Similar

Medication

[edit on Wikidata]

Infobox update



Self-portrait of a person with schizophrenia. representing that individual's perception of the distorted experience of reality in the disorder

Pronunciation / skrtsə fri:niə, skrdz-, -ou-, - freniə/[1]

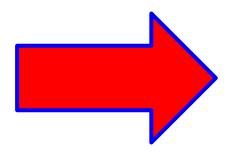
Classification and external resources

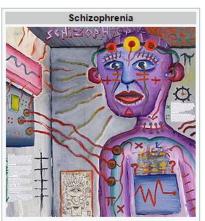
Specialty Psychiatry ICD-10 F20 ₽ ICD-9-CM 295₺ OMIM 181500₺ DiseasesDB 11890 ₺ 000928 MedlinePlus

med/2072 @ emerg/520 @ eMedicine Patient UK Schizophreniar₽

MeSH F03.700.750@

[edit on Wikidata]





Self-portrait of a person with schizophrenia representing that individual's perception of the distorted experience of reality in the disorder

Pronunciation / skitsə fri:niə, skidz-, -ou-, - freniə/[1]

Specialty Psychiatry

Symptoms False beliefs, confused thinking,

hearing voices others do not[2][3]

Usual onset Typically early adulthood[3]

Chronic^[3] Duration

Environmental and genetic factors[4] Causes

Risk factors Cannabis use, problems during

pregnancy, being raised in a city, older

father[4]

Diagnostic Based on observed behavior, reported method

experiences, and reports of others

familiar with the person[5]

Similar Substance abuse, Huntington's disease, mood disorders, autism[6] conditions

Counselling, job training[4][2] Treatment

Antipsychotics[4] Medication

18-20 years shorter life Prognosis

expectancy[7][8] due to increases in suicide, heart and lifestyle disease[8]

Frequency ~0.5%[9]



Medical Student Elective



- Six rounds of students (5, 7, 16, 15, 7, 22)
- 4 weeks working on just Wikipedia
- 2 intensive days discussing how WP works
- Number of mainspace edits per student (~35)
- Pharmacy students worked on WHO Essential Meds in collaboration with folks at WHO
- Others schools creating efforts
 - Multi year projects for med students in Israel
 - Students clubs



Partnerships

- Started in 2012 with TWB
- All human translators (not machines)
- Google translate "works" in about 70 languages
- Some languages have improved content specifically for their audience
- Working with National Taiwan University College of Medicine





Students find it useful

"Participating in this project changed my perspective on knowledge. In finding a balance between using precise professional terms and common words to explain a medical condition, I learned a lot. It has helped me to have better communication with my patients"

Aaron Huang

Language Champions

- Oriya (40 million native speakers)
- Small community of 15 editors (5 plus edits)
- Subas Chandra Rout
- 800+ articles translated
- Some of the first content to exist online



By Biswarup Ganguly on Commons

Ebola

- The most used internet site in Liberia, Sierra Leone and Guinea for Ebola
- Greater than CNN, CDC and WHO
- Content available in more than 115 languages
- ~100 M pageviews in 2014



Digital Last Mile

FACT:

3.9 billion people are not online, many of them because they can't pay for it, others because of lack of infrastructure: NO ACCESS.

Silver lining

a. Cell phones are widespread (6/7 people)

Number of solutions

- a. Cell phone companies to give Wikipedia access without data charges
- b. Download content (apps) to phone's SD card for later use
- c. Offline distribution systems

all on million people





We have an offline version of our medical content. **Download the Android app** and access this content when there is no Internet.



- Partially offline solution
- Built in collaboration with WMCH/Kiwix in 2015
- Includes diseases, anatomy, sanitation, physiology, dentistry, and medication content
- 1.2Gb (4.2Gb with videos, 130Mb mini version)
- > 75% of downloads from Global South



The App

- Overall rating of 4.7
- ~250 k of downloads for android
- 10 language versions
- ZIMs in other languages but no apps yet
- iOS recently launched





"Brilliant. Wikimedia, by providing these very useful contents for free and in such a simple and easy to use app, you are serving humanity."

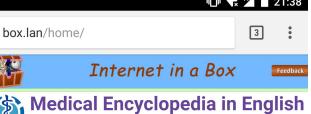
Internet-in-a-Box

- Fully offline solution
- Allows ~ 30 people to connect via wifi at any one time
- Allows both the viewing of the content on the device and downloading of the medical apps
- Does not connect to the general Internet
- Can be powered by a battery or solar panel



Content adjusted to area

- Being used in DR, Guatemala, Peru, Syrian refugee camp, among others
- Build up of modules, other resources such as national guidelines, video content
- Costs \$40 USD a device
- Available "commercially"
- Instructions on how to make your own





Medical Encyclopedia in English
A complete collection of all health care,
anatomy, and medication related topics from Wikipedia in an offline format.

Like Wikipedia all content is open access, meaning that it is free to download, reuse, share, and build upon. Download the offline app

org.kiwix.wikipedia.en.medicine.apk



Enciclopedia Médica Offline de Wikipedia

Se trata de una colección completa de todos los temas de Wikipedia sobre los cuidados relacionados con la salud, la anatomía y la medicación, en un formato que no necesita conexión a Internet.

Descargar la aplicación sin conexión org.kiwix.wikipedia.es.medicine.apk

مُقَالَّاتُ عَنْ الْرَعاية الصَّحية متوافرة بدون اتصال بالإنترنت في كل مكان وبشكل مجاني إضغط هنا لتحميل org.kiwix.wikipedia.ar.medicine.apk



The Global Emergency Medicine

WikEM The Global Emergency Medicine Wiki

Try it Out! / More on Meta

- Wifi: Internet-in-a-Box
- Password: None
- Need to turn off your cellular data
- Type: http://box.lan into the browser
- Try it out online:



http://medbox.iiab.me/home/

Next Steps

- Module library
 - Allow donations (licenses?)
 - Tools for building modules
 - Hosting?
- Collections
 - Selection of modules and create an image
 - Image hosting at Internet Archive

Module Library

Collections

























Next versions

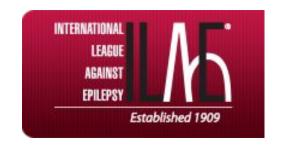
- Slimmer case
 - 1.1 cm
 - 2.4 cm
 - 6.5 cm
- 32 Gb microSD
 - CDC module
 - Video working
- Edu version (K to 12)



Further Partners











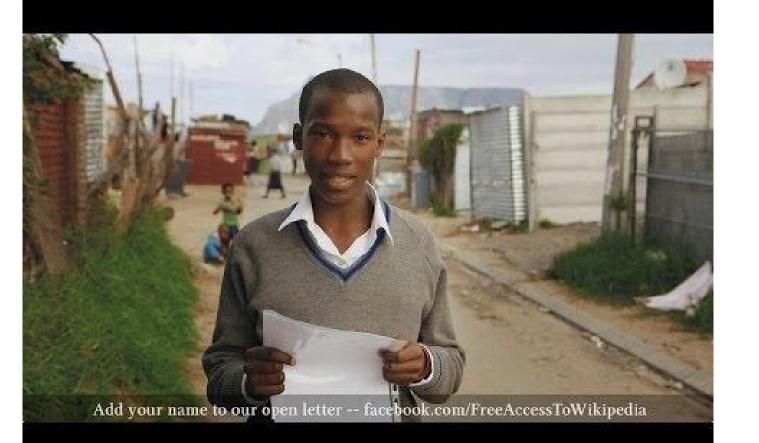




You?



ARCHIVE



Questions?

James Heilman

jmh649@gmail.com

https://meta.wikimedia.org/wiki/WPME

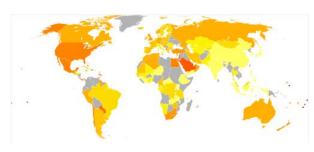
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https://enwp.org/User:Doc James

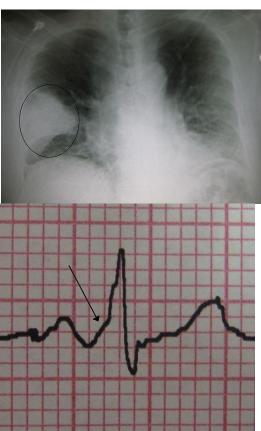
"Imagine a world in which every single person on the planet is given free access to the sum of all human knowledge. That's what we're doing."



Adding pictures

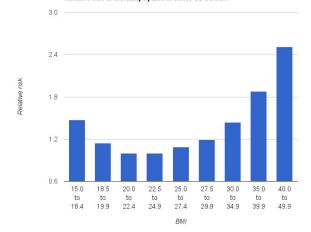








Relative risk of mortality by BMI in White US women



Collaboration with HealthPhone and Osmosis

- Working on a partnership to give 8Gb microSD cards to all healthcare providers in India
- Developing health care videos
 - >240 by Osmosis
 - > 5.5 million views last few months
 - Subtitles being translated into other languages





World Health Organization

- Improved all 440 essential medicines articles
- WHO agreed to release the list under a CC BY SA 3.0 IGO license
- Brought the article to featured list status
- Was on the main page for a day in 2017



Editing (WP:MEDHOW)

[edit]

- Find excellent quality source
- Hit the edit / edit source button
- Put the ideas in your own words using easy to understand English
- Format the reference
- Explain what you have done in the edit summary

Sources (WP:MEDRS)

expert bodies.

This page in a nutshell: Ideal sources for biomedical and health material include literature reviews or systematic reviews in reliable, third-party, published secondary sources (such as reputable medical journals), recognised standard textbooks by experts in a field, or medical guidelines and position statements from national or international

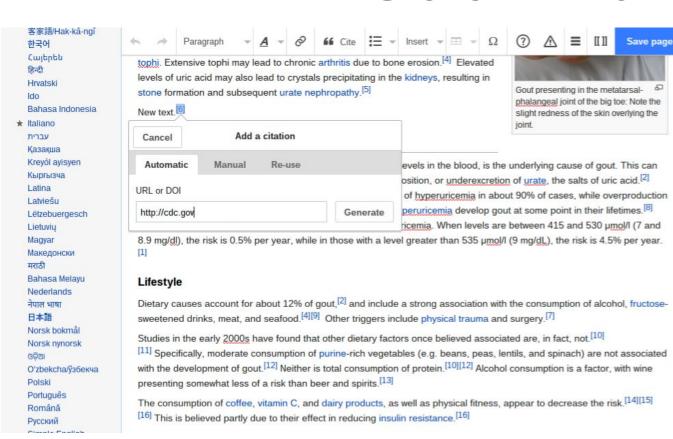


Manual of style (WP:MEDMOS)

- Naming and ordering of sections
- References go after punctuation
- We use very few capital letters
- Do not use "inside net" urls
- New WYSIWYG editor

New Way

WP:Visual Editor



Main page Discussion

View View source View history



The Wikimedia Foundation is holding a referendum to gather more input into the development and usage of an opt-in personal image hiding feature. Learn more and share your view.

[Help with translations!]

Q

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Main Page

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Welcome to Wikimedia Commons.

a database of 10,805,100 freely usable media files to which anyone can contribute.







Picture of the day



RSS feed · * By email · Other Featured pictures

Media of the day



End of warm up lap and start of the 2010 Brno Formula Renault 3.5 Series in the Czech Republic.

Contribution by the National Archives and Records Administration



The National Archives and Records Administration has contributed over 100,000 historical photographs and documents from their archives.

We can use your help categorizing the images. You can read more about how to help here.

See also: Commons:Partnerships

Highlights

If you are browsing Commons for the first time, you may want to start with Featured pictures, Quality images or Valued images. You can also see some work created by our highly skilled contributors in Meet our photographers and Meet our illustrators.



Picture of the Year 2010

In mid-August 2010 ESO Photo Ambassador Yuri Beletsky snapped this amazing photo at ESO's Paranal Observatory, A group of astronomers were observing the centre of the Milky Way using the laser guide star facility at Yepun, one of the four Unit Telescopes of the Very Large Telescope (VLT). (POTD)

(More results - Older Pictures of the Year



[+] Categories [+] Commons

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[+] Pictures and images by source

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Content

By topic

Nature

Animalia · Fossils · Landscapes · Marine life · Plantae · Weather

Society · Culture

Art · Belief · Coats of arms · Entertainment · Events · Flags · Food · History ·

Language · Literature · Music · Objects · People · Places · Politics · Sports

Science

Astronomy · Biology · Chemistry · Mathematics · Medicine · Physics · Technology

Engineering

Architecture · Chemical · Civil · Electrical · Environmental · Geophysical · Mechanical · Process

By location

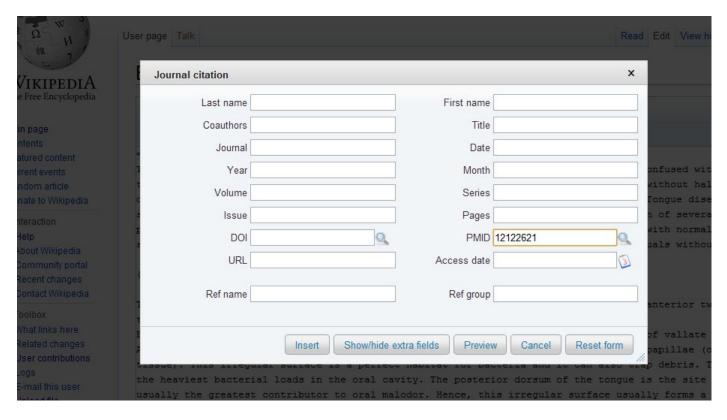
Earth

Oceans · Islands · Archipelagoes · Continents · Countries · Subdivisions

commons.wikimedia.org/wiki/Category:Solar eclipse

Old Way

WP:MEDHOW







- Largest cancer charity in the UK
- Hired a WiR in mid 2014, John Bryne
- Improved pancreatic (FA), brain, and esophageal cancer articles
- Donated 520+ images
- Viewed 32+ million times
- In at least 20 languages
- 275 people trained on editing

Adding a summary of a meta analysis

- Think newpaper headline
- One or two sentences
- Do not need publication type, author names, publishing source -> in the reference
- Add it to the appropriate section / lead

Cochrane Database Syst Rev. 2014 May 28;5:CD010909. doi: 10.1002/14651858.CD010909.pub2.

Intravenous magnesium sulfate for treating adults with acute asthma in the emergency department.

Kew KM1, Kirtchuk L, Michell CI.

Author information

Abstract

BACKGROUND: Asthma is a chronic respiratory condition characterised by airways inflammation, constriction of airway smooth muscle and structural alteration of the airways that is at least partially reversible. Exacerbations of asthma can be life threatening and place a significant burden on healthcare services. Various guidelines have been published to inform management personnel in the acute setting; several include the use of a single bolus of intravenous magnesium sulfate (IV MgSO4) in cases that do not respond to first-line treatment. However, the effectiveness of this approach remains unclear, particularly in less severe cases.

OBJECTIVES: To assess the safety and efficacy of IV MgSO4 in adults treated for acute asthma in the emergency department.

MAIN RESULTS: Fourteen studies met the inclusion criteria, randomly assigning 2313 people with acute asthma to the comparisons of interest in this review.Most studies were double-blinded trials comparing a single infusion of 1.2 g or 2 g IV MgSO4 over 15 to 30 minutes versus a matching placebo. Eleven were conducted at a single centre, and three were multi-centre trials. Participants in almost all of the studies had already been given at least oxygen, nebulised short-acting beta2-agonists and IV corticosteroids in the ED; in some studies, investigators also administered ipratropium bromide. Ten studies included only adults, and four included both adults and children; these were included because the mean age of participants was over 18 years. Intravenous MgSO4 reduced hospital admissions compared with placebo (odds ratio (OR) 0.75, 95% confidence interval (CI) 0.60 to 0.92; I(2) = 28%, P value 0.18; n = 972; high-quality evidence). In absolute terms, this odds ratio translates into a reduction of seven hospital admissions for every 100 adults treated with IV MgSO4 (95% CI two to 13 fewer). The test for subgroup differences revealed no statistical heterogeneity between the three severity subgroups (I(2) = 0%, P value 0.73) or between the four studies that administered nebulised ipratropium bromide as a co-medication and those that did not (I(2) = 0%, P value 0.82). Sensitivity analyses in which unpublished data and studies at high risk for blinding were removed from the primary analysis did not change conclusions. Within the secondary outcomes, high- and moderate-quality evidence across three spirometric indices suggests some improvement in lung function with IV MgSO4. No difference was found between IV MgSO4and placebo for most of the non-spirometric secondary outcomes, all of which were rated as low or moderate quality (intensive care admissions, ED treatment duration, length of hospital stay, readmission, respiration rate, systolic blood pressure). Adverse events were inconsistently reported and were not meta-analysed. The most commonly cited adverse events in the IV MgSO4 groups were flushing, fatigue, nausea and headache and hypotension (low blood pressure).

AUTHORS' CONCLUSIONS: This review provides evidence that a single infusion of 1.2 g or 2 g IV MgSO4 over 15 to 30 minutes reduces hospital admissions and improves lung function in adults with acute asthma who have not responded sufficiently to oxygen, nebulised short-acting beta2-agonists and IV corticosteroids. Differences in the ways the trials were conducted made it difficult for the review authors to assess whether severity of the exacerbation or additional co-medications altered the treatment effect of IV MgSO4. Limited evidence was found for other measures of benefit and safety. Studies conducted in these populations should clearly define baseline severity parameters and systematically record adverse events. Studies recruiting participants with exacerbations of varying severity should consider subgrouping results on the basis of accepted severity classifications.

Magnesium sulfate may help those who are having an asthma attack who do not improve after other treatments. [2] This benefit includes a reduced need for hospital admission. [2]

Writing simple articles

- Disease related articles cover:
 - definition and symptoms
 - causes and diagnosis
 - prevention and treatment
 - epidemiology and history
- All currently reviewed by me
- Currently >800 ready for translation



Access

To read this story in full you will need to login or make a payment (see right).

nature.com > Journal home > Table of Contents

News

Nature 438, 900-901 (5 December 2005) | dei:10.1038/438900a; Published online 14 December 2005

Special Report Internet encyclopaedias go head to head

Jim Giles

Jimmy Wales' Wikipedia comes close to Britannica in terms of A Top the accuracy of its science entries, a Nature investigation finds.

UPDATE: see details of how the data were collected for this article. in the supplementary information.

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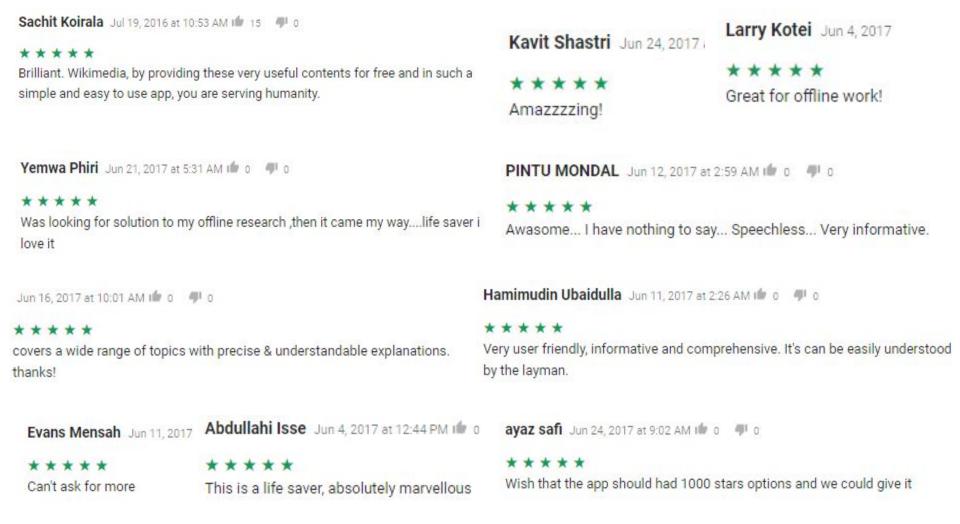
open innovation challenges

N Square Challenge:

Future research

Q: How much does the packaging of content affect peoples assessment of its reliability?

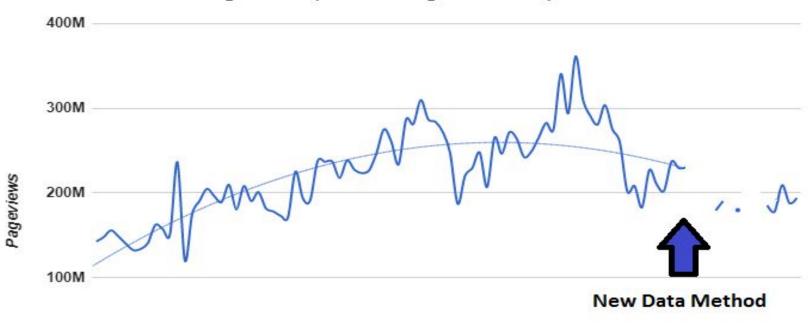
Methods: Take a WP article and make it appear like the BMJ and vise versa. Give pairs of these articles randomly to academics to review using the DISCERN score

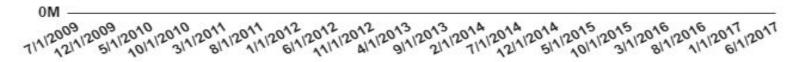


The New Morth Times Wikipedia Emerges as Trusted Internet Source for Ebola Information MEDIA BY NOAM COHEN OCT. 26, 2014

"I try to convince people to edit Wikipedia not simply use it."

Estimates Medical Pageviews (Accounting for Mobile)





UCSF	medicals	tudents sti	udents have mad	le nearly 3,0	000 improve	ments
TOTALS	80	65	190 days of student effort	2,961	1,512	1,825,057
March 2017	8	7	25 days	236	680	94,161
lov – Dec 2016	22	14	27 days	850	490	185,107
March 2016	7	1	28 days	347	2,536	71,016
Nov 2015	15	15	26 days	444	1,628	500,708
1177.777	777					

Days of active editing

28 days

28 days

28 days

Number of

students

5

7

16

Course Dates

Nov - Dec 2013

April 2014

Nov 2014

Nov -

Number of

pages edited

5

16

Average views per

page per day over

course days

3,279

1,455

513

Total views

during course

459,071

285,233

229,761

Number of edits

during course

176

181

727

to Wikipedia pages viewed on average over 1,500 times per day

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Who has edited Wikipedia?