Wikipedia, Medicine and the Cochrane Collaboration

James Heilman MD, CCFP(EM), Wikipedian Wiki Project Med Foundation







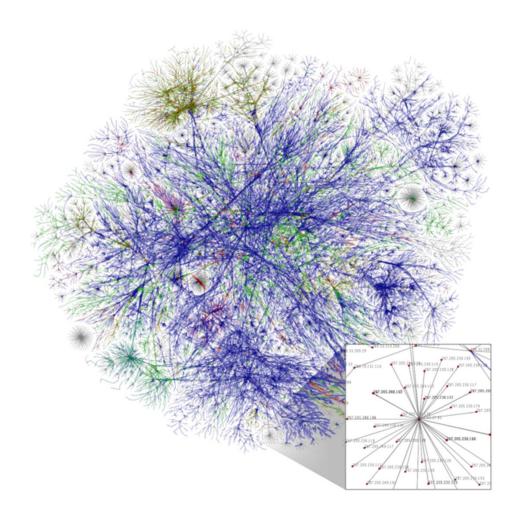
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A little about myself



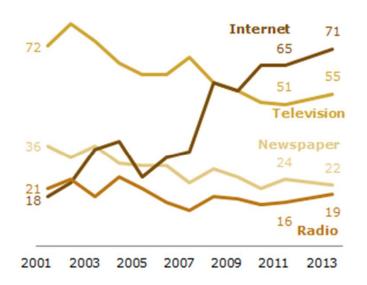
Small town ER doc Some academic affiliation but am a long way from my University (~800 Km) Became involved in 2007/2008 after coming across a poor quality medical articles An active volunteer ever since

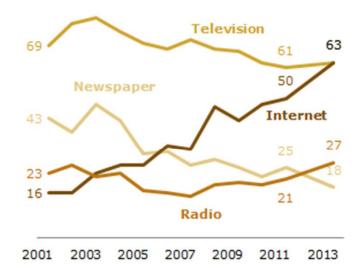




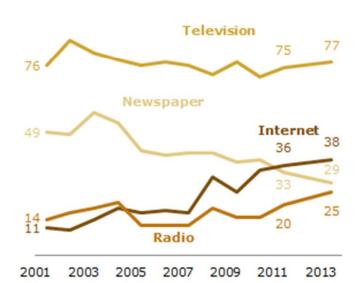
Main Source for National and International News





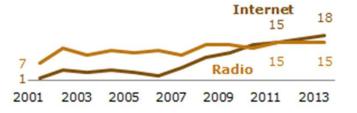


50-64





65+



STATE OF HEALTHCARE 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.



Who here uses Wikipedia?



What language do you use it in?



Is Wikipedia Read by Nearly Everyone?



Some numbers

Largest and most popular reference work on the Internet, 5th most popular website in the world (the first four being Google, Facebook, Youtube and Yahoo) 500 million unique visitors per month as of 2013 (roughly 21 billion page views)⁽⁷⁾ 4.8 billion of these via mobile⁽⁷⁾

Medical stats



Wikipediacs medical content received

~5 billion pageviews for 160,000

articles in 2013

2-3% of all pageviews for Wikipedia are

for health

Half of this views were for English, the

other half were in the other 275

languages

Medical stats



50% to 100% of **physicians** use Wikipedia

35 to 70% of **pharmacists** admit to its use⁽³⁾

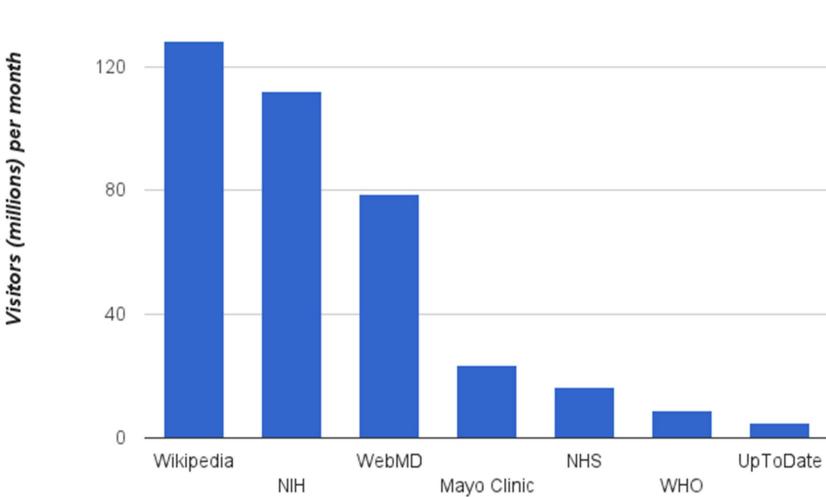
Most frequently used source by junior MDs

(besides Google)

94% of medical students use Wikipedia

Most Popular Internet Health Content by Visitors, 2013/2014





Why do medical students use Wikipedia?

"The use of Wikipedia is almost ubiquitous throughout medical school for medical education. The ease of access and understanding, as well as readily usable and consumer-friendly interfaces, means students often turn to this, rather than traditional authoritative resources. While the reliance on Wikipedia reduces throughout medical school, this is likely due to confidence and ability to concurrently use other resources as well as perceived reduced reliability. Medical school administrators would benefit from embracing and developing web2.0 resources and include their use in ongoing dynamic medical education."

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.

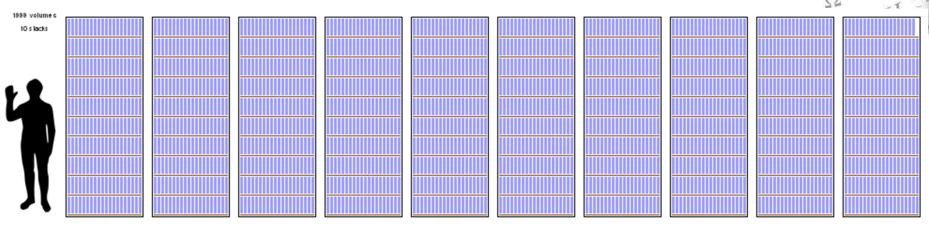
Allahwala UK, Nadkarni A, Sebaratnam DF.



Does Wikipedia Cover Nearly Everything?



Size of the English version as of May 2014(9)

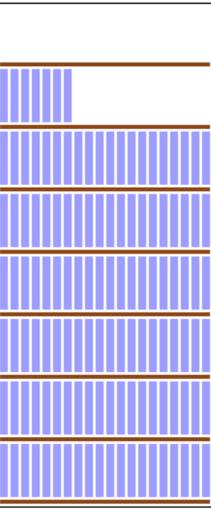


Largest reference work on the Internet
Equivalent to ~2000 volumes of the
Encyclopedia Britannica
As of Mar 2014 ~31.2 million articles in 286
languages (4.5 million in English)
And continues to grow...

Size of the medical content across all languages 126.9 volumes

Equivalent to ~126.9 volumes of the Encyclopedia Britannica

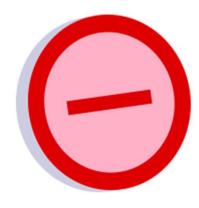






Does Wikipedia Have a Huge Number of Editors?





Who has edited Wikipedia?



A few numbers

Anyone can edit (35 million registered accounts), many more editing anonymously 80,000 people contribute >5 edits a month 12,000 people contribute more than 100 edits a month All volunteers working for free

Medical numbers



1.1M edits by 224,000 accounts. 274 editors made more than 250 edits in 2013

Who are they?

Half health care professionals 52% have either a Masters, PhD or MD 33% have a Bachelor's degree 80% male, 10% female, 10% would rather not say Many of the non professionals are fixing grammar or doing other maintenance



Does What One Writes Matter?



Total page views for all medical pages.[1] @

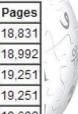
Hits

Month

142,598,369 18,831 July 2009 Period: 2013-04-01 — 2013-04-30 (UTC) 147,795,383 18,992 August 2009 Views (per day

◆ | Assessment ◆ | Importance ◆ September 2009 155,748,923 19,251 Rank • ♦ Views Page average) 148.544.890 19.251 October 2009 1 Ricin (talk) В 1326727 44224 Low December 2009 132,352,902 19,682 21669 2 Leonardo da Vinci (talk) 650072 (+) GA Low 133,689,124 19,989 January 2010 3 Asperger syndrome (talk) 520627 17354 · FA High 140,750,494 20,115 February 2010 4 Bipolar disorder (talk) 509656 16988 В Top 162,087,808 20,628 March 2010 495408 16513 В 5 Diaper (talk) Mid 157,343,696 21,123 April 2010 6 Multiple sclerosis (talk) 453769 15125 · FA Tep May 2010 151,434,999 21,327 14703 7 Autism (talk) 441114 ♠ FA High June 2010 231.816.029 21.507 8 Meningitis (talk) 421749 14058 ◆ FA Top July 2010 115,806,435 21,613 9 Borderline personality disorder (talk) 397571 13252 C High August 2010 167,842,126 21,841 392226 13074 В 182,396,707 21,881 10 Sexual intercourse (talk) Mid September 2010 195,936,593 22,091 October 2010 11 Tuberculosis (talk) 388969 12965 GA Top November 2010 186.633.672 22.407 12 Schizophrenia (talk) 388590 12953 ● FA Top December 2010 | 178,153,053 | 22,622 13 Adderall (talk) 362539 12084 C Mid January 2011 196,308,647 22,629 14 Gout (talk) 341670 11389 (GA Tep 168.827.219 23.010 February 2011 15 Crohn's disease (talk) 341054 11368 ⊕ GA Mid 196,043,042 23,176 March 2011 330479 11015 В 16 Diabetes mellitus (talk) Top 176,900,097 23,355 April 2011 В 310055 17 Black Death (talk) 10335 Mid 186,277,099 23,388 May 2011 18 Pneumonia (talk) 308285 10276 (GA Top 167,176,652 23,448 June 2011 19 Female genital mutilation (talk) 306147 10204 В Mid 162,220,994 23,611 July 2011 302388 10079 C 20 Electronic cigarette (talk) Mid August 2011 157,693,069 23,735 21 Parkinson's disease (talk) 300408 10013 · FA September 2011 157,601,955 24,006 22 Human (talk) 296498 9883 В High 203,597,362 24,119 October 2011 23 Attention deficit hyperactivity disorder (talk) 294428 9814 В Top November 2011 173,089,448 24,251 286730 9557 В 24 Down syndrome (talk) Mid December 2011 165,366,535 24,570 C 280712 9357 25 Physical exercise (talk) Top 205,289,357 24,879 January 2012 26 Hypertension (talk) 279049 9301 ⊕ GA Top February 2012 | 206,672,957 | 25,121

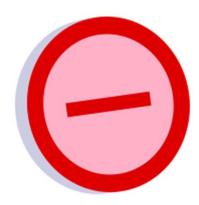
List [edit]





Is Wikipedia Peer Reviewed?





Featured articles / good articles



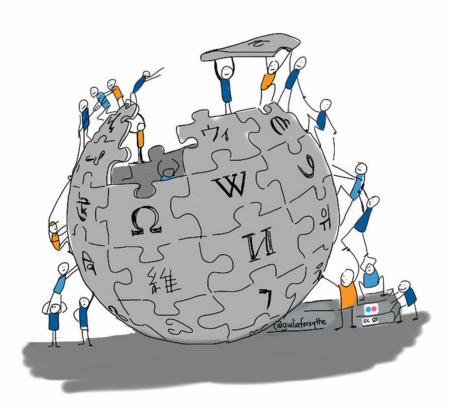




Must undergo semi formal peer review Overall 4,250 FAs and 20,000 GAs Medicine has 58 FAs and 166 GAs (<1%)

More formal peer review and author credit in collaboration with journals

Collaborations



Health Information for All in a Language of their Choice



Who are involved?

Translators Without Borders

- An NGO founded in 1993
- Humanitarian translations into other languages

Wikiproject Medicine

 A group of volunteers within Wikipedia who are interested in improving medical content

Wikipedians in many languages





What we are working on?

Creating a base set of medical topics that should exist in all languages Improving them to a professional standard in English while trying keep language simple Translating content into as many other languages as possible Integration the translations with existing Wikipedia content Get easy and inexpensive access for everyone (including via collaborations with cell phone companies)

Two tracks of article



Full articles
Brought to GA/FA
2500-15000
words
Goal is 100
Suitable for mid to large languages

Short articles
3 to 4 paragraph overviews
Leads of English articles
Goal is 1,000
Suitable for small to mid languages

Rabies is a viral disease that causes acute inflammation of the brain in humans and other warm-blooded animals.[1] The time period between contacting the disease and the start of symptoms is usually one to three months; however can be less than one week or more than one year.[1] The time depending on the distance the virus must travel to reach the central nervous system. [2] Early symptoms may include: fever and tingling at the site of exposure. [1] This is than followed by either violent movements, uncontrolled excitement, and fear of water or an inability to move parts of the body and confusion that leads to loss of consciousness.[1] In both cases once symptoms appears it nearly always results in death.[1]

The disease is spread to humans from another animal, commonly by a bite or scratch.[11] Infected saliva that comes into contact with any mucous membrane; is also a risk.[1] Globally most cases are the result of a dog bite, [1] with this being the cause in more than 90% of countries in countries were dogs commonly have rabies.[3] In the Americas and Australia, less than 5% of cases are from dogs, with bats being the most common cause. [3][1] Rodents are very rarely infected. [3] The rabies virus travels to the brain by following the peripheral nerves. The disease can also be diagnosed after the start of symptoms.[1]

Animal control and vaccination programs have decreased the risk of rabies from dogs in a number of regions of the world. [1] Immunizing people before they are exposed is recommended in those who are at high risk including: those who work with bats or spend prolonged periods in areas of the world where the disease is common.[1] In those who have been exposed to rabies, rabies vaccine and sometimes rabies immunoglobulin are effective in preventing disease if given before the start of symptoms. [1] Washing bites and scratches for 15 minutes with soap and water also appears to be somewhat effective. [1] Only a few people have survived a rabies infection and this was with extensive treatment. [4]

Rabies causes about 26,000 deaths annually worldwide.[5] more than 95% of which occur in Asia and Africa.[1] It is present in more than 150 countries and more than 3 billion people live in regions of the world were it occurs.[1] In most of Europe and Australia rabies is only present in bats.[6] Many small island nations are entirely rabies free.[7]

Rabies

Classification and external resources



Dog with rabies in the paralytic (post-furious)

ICD-10 DiseasesDB 11148 @ MedlinePlus 001334 @

MeSH

eMedicine med/1374 @ eera/493 @

ped/1974 Ø D011818 @

References [edit]

- 1. A a b c d e f g h i j k l m n o p "Rabies Fact Sheet N°99" @. World Health Organization. July 2013. Retrieved 28 February 2014.
- 2. * Cotran RS, Kumar V, Fausto N (2005). Robbins and Cotran Pathologic Basis of Disease (7th ed.). St. Louis: Elsevier/Saunders. p. 1375. ISBN 0-7216-0187-1.
- 3. ^ a b c Tintinalli, Judith E. (2010). Emergency Medicine: A Comprehensive Study Guide (Emergency Medicine (Tintinalli)). New York: McGraw-Hill Companies. pp. Chapter 152. ISBN 0-07-148480-9.
- 4. A Hemachudha, T; Ugolini, G; Wacharapluesadee, S; Sungkarat, W; Shuangshoti, S; Laothamatas, J (2013 May). "Human rabies: neuropathogenesis, diagnosis, and management.". Lancet neurology 12 (5): 498-513. PMID 23602163 @.
- 5. ^ Lozano, R (Dec 15, 2012). "Global and regional mortality from 235 causes of death for 20 age groups in 1990 and 2010: a systematic analysis for the Global Burden of Disease Study 2010.". Lancet 380 (9859): 2095-128. doi:10.1016/S0140-6736(12)61728-0 @. PMID 23245604 @.
- 6. A "Presence / absence of rabies in 2007" @. World Health Organization. 2007. Retrieved 1 March 2014.
- 7. A "Rabies-Free Countries and Political Units" @. CDC. Retrieved 1 March 2014.

Why do we need this?

Every day tens of thousands die for lack of low cost health care. Per HIFA 2015, a major factor is poor access to information (5)

- 8 of 10 caregivers do not know the key symptoms of pneumonia
- 4 of 10 mothers believe fluids should be withheld if their child has diarrhea
- More than 60% of Africains said that a friend or family member could have been saved if theyof had information in their own language

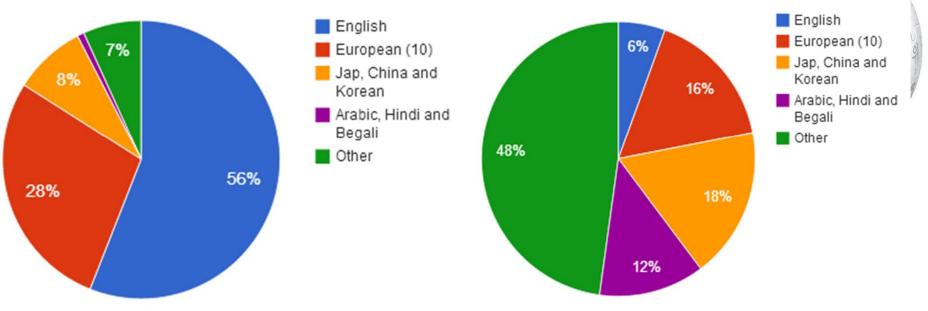
Wikipedia is a viable way to address this knowledge gap.

Why other languages?

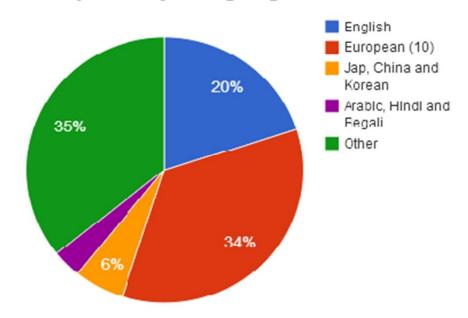
What languages do you publish in?
Issue: Little health care content exists in many languages
Problem: Partly because majority of medical research/publications in English
Solution: Translate from English into other languages

Internet by Language

World By Language



Wikipedia by Language



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

The Digital Last Mile

Those in the developing world have poor access to computers / the Internet Problem: Cell phones widespread but data charges are expensive Solution: Convince cell phone companies to allow Wikipedia access without data charges The WMF has signed agreements with cellphone companies to give access free of data charges to ~750 million people in Africa, the Middle East, Asia and Eastern Europe.

Cochrane Wikipedia in Residence

Sydney Poore (former nurse, very experienced Wikipedian)



A resource for editing advice / general

Wikipedia advice

Developing a weekly mailing list for all new /

updated reviews

Knowledge translation

wikipedian@cochrane.org



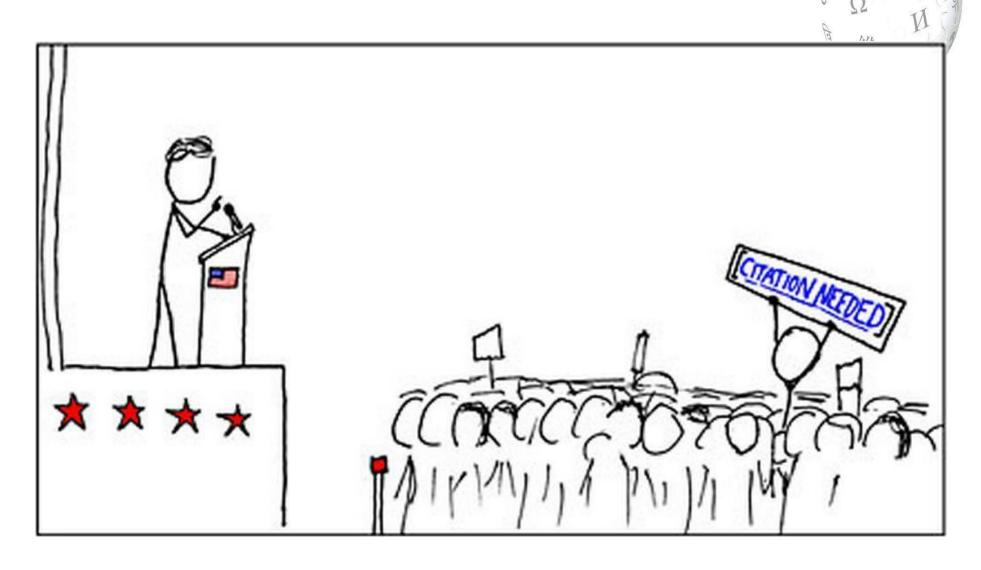


Can One Just Come and Write What They Want?





Reference, Reference



Causes [edit]

Main article: Causes of schizophrenia

A combination of genetic and environmental factors play a role in the development of schizophrenia. [2][3] People with a family history of schizophrenia who suffer a transient psychosis have a 20–40% chance of being diagnosed one year later. [23]

Genetic [edit]

Estimates of heritability vary because of the difficulty in separating the effects of genetics and the environment. [24] The greatest risk for developing 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 affected. [3] It is likely that many genes are involved, each of small effect and unknown transmission and expression. [3] Many possible candidates have been proposed, including specific copy number variations, NOTCH4, and histone protein loci. [25] A number of genome-wide associations such as zinc finger protein 804A have also been linked. [26] There appears to be significant overlap in the genetics of schizophrenia and bipolar disorder. [27]

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. [28][29]

Environment [edit]

Environmental factors associated with the development of schizophrenia include the living environment, drug use and prenatal stressors. [2] Parenting style seems to have no major effect, although people with supportive parents do better than those with critical or hostile parents. [3] 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, [2][3] even after taking into account drug use, ethnic group, and size of social group. [30] 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. [3][31]

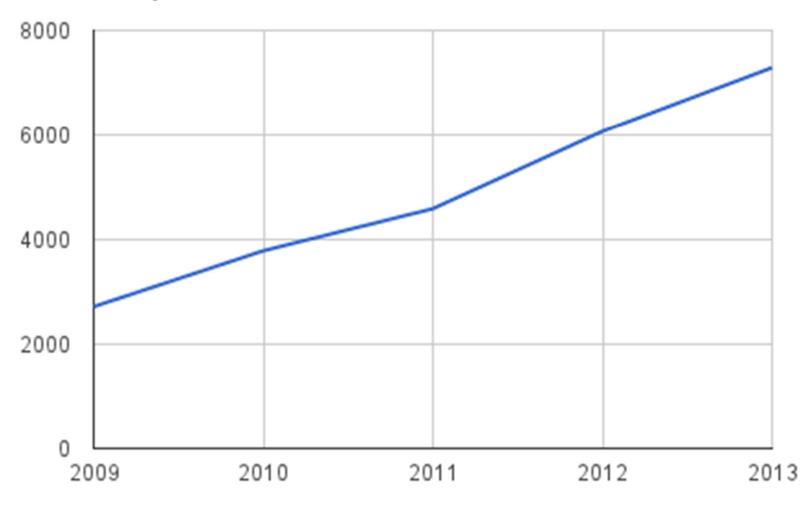
Drug use [edit]

Amphetamine, cocaine, and to a lesser extent alcohol, can result in psychosis that presents very similarly to schizophrenia. [3][32] Although not generally believed to be a cause of the illness, people with schizophrenia use nicotine at much greater rates than the general population. [33] About half of those with schizophrenia use drugs or alcohol excessively. [34] Evidence supports a link between earlier onset of psychotic illness and cannabis use; alcohol use is not associated with an earlier onset of psychosis. [35] Other drugs may be used only as coping mechanisms by individuals who have schizophrenia to deal with depression, anxiety, boredom, and loneliness. [34][36] There is evidence that alcohol abuse via a kindling mechanism can occasionally cause the development of a chronic substance induced psychotic disorder, i.e. schizophrenia. [37] A small number of people withdrawing from benzodiazepines experience a severe protracted withdrawal syndrome which can resemble schizophrenia and be misdiagnosed as such. [38] The more often cannabis is abused, the more likely a person is to develop a psychotic illness, [39] with frequent use being correlated with twice the risk of psychosis and schizophrenia. [40] Whether cannabis use is a contributory cause of schizophrenia, rather than a behavior that does not actually cause the disease, remains controversial. [25][41]

Developmental factors [edit]

Factors such as hypoxia and infection, or stress and malnutrition in the mother during fetal development, may result in a slight increase in the risk of schizophrenia later in life. [2] People diagnosed with schizophrenia are more likely to have been born in winter or spring (at least in the northern hemisphere), which may be a result of increased rates of viral exposures in utero. [3] This difference is about 5 to 8%. [42]

Number of times "Cochrane" is referred to on Wikipedia



Who Are We Writing For?



Manual of style

- Write for the average reader
- Write for a global audience
- Just state the facts
- The general public does not care about confidence intervals+

Conference in 2009 with the goal of focusing national attention on the obesity epidemic. [136]

Comprehensive approaches are being looked at to address the rising rates of obesity. The Obesity Policy Action (OPA) framework divides measure into 'upstream' policies, 'midstream' policies, 'downstream' policies. 'Upstream' policies look at changing society, 'midstream' policies try to alter individuals' behavior to prevent obesity, and 'downstream' policies try to treat currently afflicted people.[137]

Management

Management of obesity Main articl

The main treatment is physical exercise. [62] Diet programs may produce weight loss over the short term, [138] but maintaining this weight loss is frequently difficult and often requires making exercise and a lower food energy diet a permanent part of a person's lifestyle. [139][140] Success rates of long-term weight loss maintenance with lifestyle changes are low ranging from 2-20%.[141]

One medication, orlistat (Xenical), is current widely available and approved for long term use. Weight loss however is modest with an average of 2.9 kg (6.4 lb) at 1 to 4 years and there is little information on how these drugs affect longer-term complications of obesity. [142] It use is associated with high rates of gastrointestinal side



Orlistat (Xenical) the most commonly used medication to treat obesity and sibutramine (Meridia) a recently withdrawn medication due to cardiovascular side effects

effects^[142] and concerns have been raised about negative effects on the kidneys.^[143]

The most effective treatment for obesity is bariatric surgery. Surgery for severe obesity is associated with long-term weight loss and decreased overall mortality. One study found a weight loss of between 14% and 25% (depending on the type of procedure performed) at 10 years, and a 29% reduction in all cause mortality when compared to standard weight loss measures. [144] However, due to its cost and the risk of complications, researchers are searching for other effective yet less invasive treatments.

Epidemiology

[edit]

[edit]

Main article: Epidemiology of obesity

Before the 20th century,





Article Discussion

Read Edit 🐨 🔻 TW 🕶

Management of obesity

From Wikipedia, the free encyclopedia

The main treatment for obesity consists of dieting and physical exercise. [1] Diet programs may produce weight loss over the short term. [2] but maintaining this weight loss is frequently difficult and often requires making exercise and a lower calorie diet a permanent part of a person's lifestyle. [3][4] Success rates of long-term weight loss maintenance with lifestyle changes are low ranging from 2-20%.[5]

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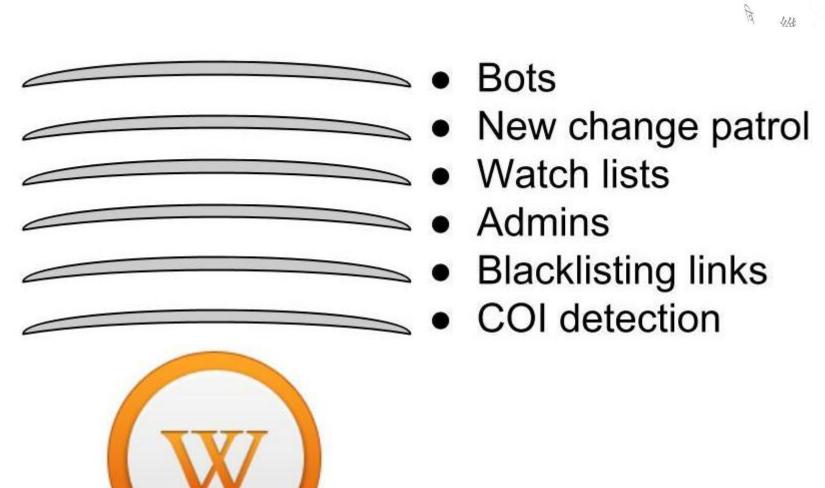
The most effective treatment for obesity is bariatric surgery. [citation needed] Surgery for severe obesity is associated with long-term weight loss and decreased overall mortality. One study found a weight loss of between 14% and 25% (depending on the type of procedure performed) at 10 years, and a 29% reduction in all cause mortality when compared to standard weight loss measures. [7] However, due to its cost and the risk of complications, researchers are searching for other effective yet less invasive treatments.

Studies have found significant benefits in mortality in certain populations from weight loss. In a prospective study of obese women with weight related diseases, intentional weight loss of any amount was associated with a 20% reduction in mortality. In obese women without obesity related illnesses a weight loss of greater than 9 kg (20 lb) was associated with a 25% reduction in mortality. [8] A recent review concluded that certain subgroups such as those with type 2 diabetes and women show long term benefits in all cause mortality, while outcomes for men do not seem to be improved with weight loss. [9] A subsequent study has found benefits in mortality from intentional weight loss in those who have severe obesity.[10]

Contents [hide]

- 1 Dieting
- 2 Exercise
- 3 Weight loss programs
- 4 Medication
- 5 Surgery
- 6 Clinical protocols
- 7 Research
- 8 References

Layers of quality assurance



So why get involved?

Wikipedia is what the world is reading You believe all people deserve access to high quality health information An international group of academics and members of the lay public with whom to discuss medicine

There is no money, there is no fame

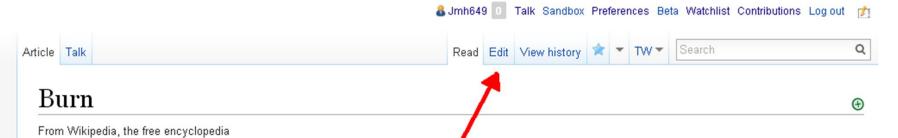
Editing



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Burn

Classification and external resources

Second-degree burn of the hand

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article/1278244 @

T20 @-T31 @

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ICD-10

ICD-9

DiseasesDB

MedlinePlus

eMedicine

This article is about the injury. For other uses, see Burn (disambiguation

A **burn** is a type of injury to flesh or skin caused by heat, electricity, cherocals, friction, or radiation. Burns that affect only the superficial skin are known as superficial or first-degree burns. When damage penetrates into some of the underlying layers, it is a partial-thickness or second-degree burn. In a full-thickness or third-degree burn, the injury extends to all layers of the skin. A fourth-degree burn additionally involves injury to deeper tissues, such as muscle or bone.

The treatment required depends on the severity of the burn. Superficial burns may be managed with little more than simple pain relievers, while major burns may require prolonged treatment in specialized burn centers. Cooling with tap water may help relieve pain and decrease damage; however, prolonged exposure may result in low body temperature. Partial-thickness burns may require cleaning with soap and water, followed by dressings. It is not clear how to manage blisters, but it is probably reasonable to leave them intact. Full-thickness burns usually require surgical treatments, such as skin grafting. Extensive burns often require large amounts of intravenous fluids because the subsequent inflammatory response will result in significant capillary fluid leakage and edema. The most common complications of burns are related to infection.

While large burns can be fatal, modern treatments developed since 1960 have significantly improved the outcomes, especially in children and young adults. Globally, about 11 million people seek medical treatment, and 300,000 die from burns each year. In the United States, approximately 4% of those admitted to a burn center die from their injuries. The long-term outcome is primarily related to the size of burn and the age of the person affected.



d citations

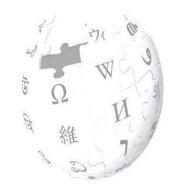
age names

Article Talk Read Edit View history

Editing Cystic fibrosis

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Questions?

James Heilman

jmh649@gmail.com

http://enwp.org/User:Jmh649

Mmagine 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.+

References

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- http://infodisiac.com/blog/2012/02/wikipedia-readers/
- 7. http://reportcard.wmflabs.org/
- 8. http://en.wikipedia.org/wiki/List_of_languages_by_number_of_native_speakers#More_than_100 _million_native_speakers
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