COVID-19 seen through Wikidata





Lane Rasberry

Wikimedian in Residence School of Data Science University of Virginia

Agenda

- 1. Why Wikidata matters
- 2. What Wikidata is
- 3. COVID-19 in Wikidata
- 4. You can edit
- 5. Questions



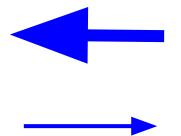


Wikidata matters because it multiplies Wikipedia's impact

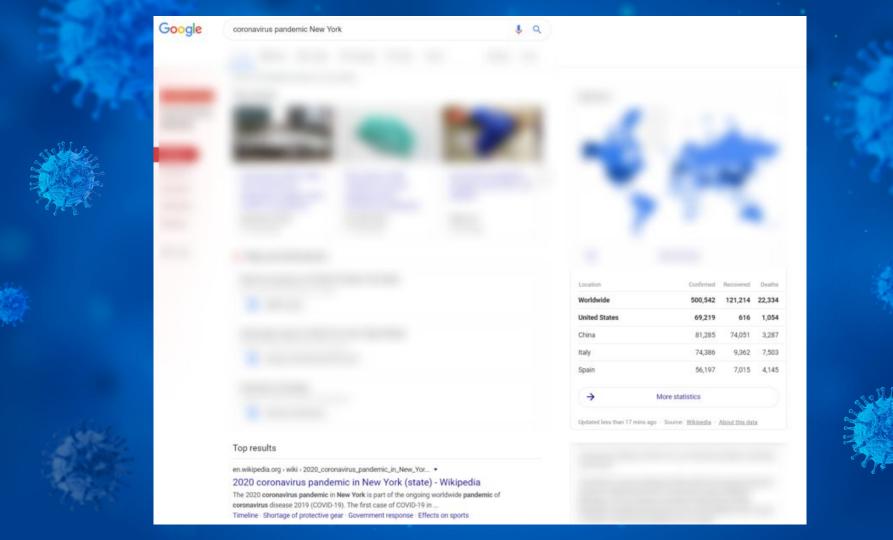
Google



Google









Main page
Contents
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Current events
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Interaction

Help About Wikipedia Community portal Recent changes Contact page

Tools

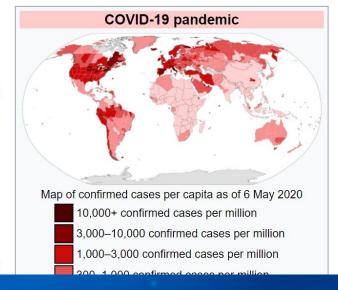
Article Talk Read View source View history Search Wikipedia Q

COVID-19 pandemic

From Wikipedia, the free encyclopedia

The **COVID-19 pandemic**, also known as the **coronavirus pandemic**, is an ongoing pandemic of coronavirus disease 2019 (COVID-19) caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The outbreak was identified in Wuhan, China, in December 2019.^[4] The World Health Organization declared the outbreak a Public Health Emergency of International Concern on 30 January, and a pandemic on 11 March.^{[6][7]} As of 6 May 2020, more than 3.68 million cases of COVID-19 have been reported in over 187 countries and territories, resulting in more than 257,000 deaths. More than 1.2 million people have recovered.^[5]

The virus is primarily spread between people during close contact, [c] often via small droplets produced by coughing, [d] sneezing, and talking. [8][9][11] The droplets usually fall to the ground or onto surfaces





Item

Discussion

COVID-19 pandemic (Q81068910)

Statements

instance of



pandemic



of

COVID-19

start time

11 March 2020

statement supported by

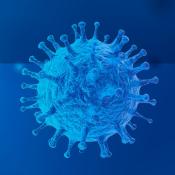
World Health Organization



COVID-19 in Wikidata



Query Wikipedia





Please show me X which have characteristic Y.

your friend, Wikilover





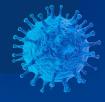


Article

Talk

Deaths in 2020

From Wikipedia, the free encyclopedia





Dear Wiki,

Please show me <u>people</u> who have <u>died from COVID-19</u>.

your friend, Wikilover

Llorenç Cassi i Morató	Catalan athlete	track and field coach	Spain	1940-05- 14	2020-03-23	
José Folgado	Spanish professor	senior lecturer politician economist	Spain	1944-04- 03	2020-03-23	A NUIVA ECC
Maurice Berger	American art historian	art historian journalist curator	United States of America	1956-05- 22	2020-03-23	
Lucien Sève	French philosopher and political activist	philosopher political activist	France	1926-12- 09	2020-03-23	
Lucia Bosè	Italian actress	model beauty pageant contestant film actor	Italy Spain	1931-01- 28	2020-03-23	Pair Par



Dear Wiki,

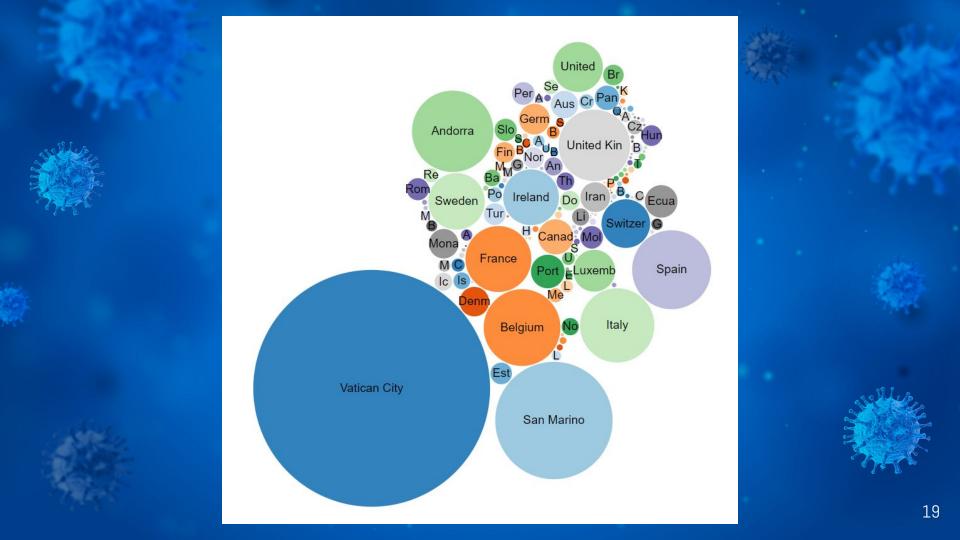
Which country has highest percentage of COVID-19 confirmed cases?



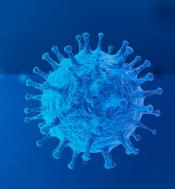


- get list of sovereign states
- get counts of cases by state
- get population of states
- divide cases / population





Infoboxes in Wikipedia articles





Coronavirus disease 2019

文 Language

Download PDF



This article is about the disease. For the virus, see Severe acute respiratory syndrome coronavirus 2. For the pandemic, see COVID-19 pandemic.

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). [9] It was first identified in December 2019 in Wuhan, the capital of China's Hubei province, and has since spread globally, resulting in an ongoing pandemic. [10][11] As of 6 May 2020, more than 3.74 million cases have been reported across 187 countries and territories, resulting in more than 263,000 deaths. More than 1.23 million people have recovered. [8]

Common symptoms include fever, cough, fatigue, shortness of breath, and loss of smell and taste. [5][12][13] While the majority of cases result in mild symptoms, some progress to viral pneumonia, multi-organ failure, or cytokine storm. [10][14][15] The time from exposure to onset of symptoms is typically around five days but may range from two to fourteen days.[5][16]

The virus is primarily spread between people during close contact, [a] often via small droplets produced by coughing, [b] sneezing, and talking. [6][17][19] The droplets usually fall to the ground or onto surfaces rather than remaining in the air over long distances. [6] People may also become infected by touching a contaminated surface and then touching their face. [6][17] On surfaces, the amount of virus declines over time until it is insufficient to remain infectious, but it may be detected for hours or days. [6][19][20] It is most contagious during the first three days after the onset of symptoms, although spread may be possible before symptoms appear and in later stages of the disease. [21] The standard method of diagnosis is by real-time reverse transcription polymerase chain reaction (rRT-PCR) from a

Coronavirus disease 2019 (COVID-19)

Other names

- Coronavirus
- COVID
- 2019-nCoV acute respiratory disease
- Novel coronavirus pneumonia^{[1][2]}





Coronavirus disease 2019

文 Language



Download PDF



This article is about the disease. For the virus, see Severe acute respiratory syndrome coronavirus 2. For the pandemic, see COVID-19 pandemic.

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). [9] It was first identified in December 2019 in Wuha. the capital of China's Hubei province, and has since spread globally, resulting in an ongoing pandemic. [10][11] As of 6 May 2020, more than 34 million cases have been reported across 187 countries and territories, resulting in more than 263,000 deaths. More than 1.23 million people has recovered. [8]

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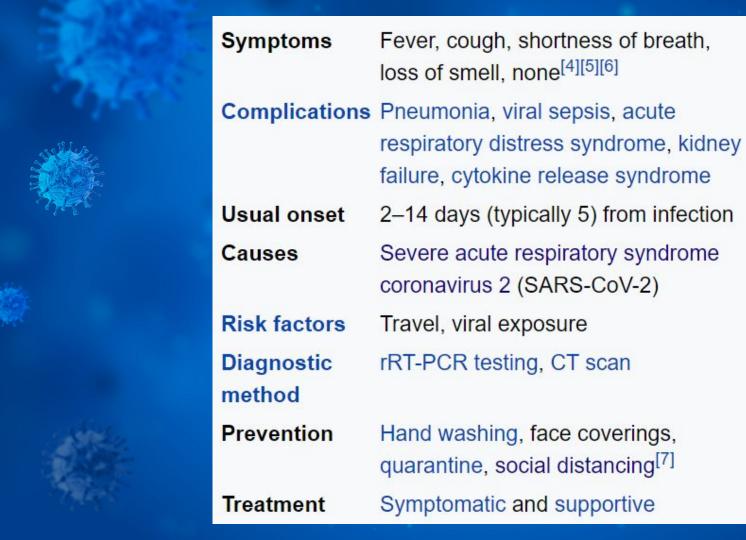
Coronavirus disease 2019 (COVID-19)

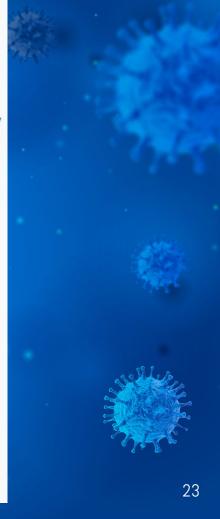
Other names

- Coronavirus
- COVID
- 2019-nCoV acute respiratory disease
- Novel coronavirus pneumonia^{[1][2]}









Translate terms once, use forever

- fever
- shortness of breath
- hand washing
- quarantine
- viral exposure

- social distancing
- supportive treatment
- acute respiratory distress syndrome

French

Urdu

Catalan

Causes Coronavirus 2 du syndrome respiratoire aigu sévère

Diagnostic PCR sur prélèvement

nasopharyngé ou bronchique et scanner des poumons

Différentiel Infection virale à H5N1,

H7N9, grippe et toutes infections pulmonaires bactériennes et virales y compris MERS, SRAS et

tuberculose

Traitement Soins de support (d),

antiviral, oxygénothérapie normobare, immunothérapie,

ivig (en) et

immunosuppresseur 🥒



خُر دبینی تصویر میں سارس کووی 2 کو دیکھا جاسکتا ہے۔ وائرس کے ذرات کے باہری کناروں پر نوکیں کسی تاج (crown) سے ملتی ہیں، انہی خصوصیات کی وجہ سے اس مرض کا نام کورونا پڑا۔

/kəˈrounəˌvaɪrəs dɪˈziːz/

تخصص مهلک تنفسی انفیکشن[5]

علامات بخار، كهانسى، گهٹن[6]

طبی وائرل نمونیا، ARDS، گرده فیل پیچیدگیان

سارس كووى 2

rRT-PCR ٹیسٹنگ، امیونوسے، سی ٹی اسکین

تشخیصی طریقہ

تدارک

تعدد

اموات

باتھ دھونا، کھانسی کے آداب، بیماروں سے دوری

معالجي تدابير علامتي اور علاج

1,273,990 مصدقه مريض

69,444 (مصدقہ مریضوں کا 5.5%)

Clinica-tractament

Simptomes

tos, rinitis, febre, insuficiència respiratòria, cefalàlgia, miàlgia, fatiga muscular, hemoptisi, diarrea, dispnea,

limfopènia, síndrome del destret respiratori de l'adult, anèmia, cytokine

release syndrome (en) O, síndrome

gripal, anòsmia, agèusia, manifestació

neurològica, hipòxia, inflamació, calfred i nasal congestion ^(en) Ø

Exàmens

examen de COVID-19

Tractament

Atenció de suport, antivíric, oxygen therapy (en) Ø, immunoteràpia, teràpia

[Expand]

amb immunoglobulina,

immunosupressor i antiinflamatori

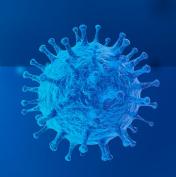
Medicació

Patogènia

Transmissió transmissió aèria, transmissió per **patògena** secrecions respiratòries, transmissió

	ALC: "		
18	mental depression Q4340209	bn	bn
		en mental depression	en State of low mood
		hi अवसाद	hi एक तरह की मानसिक बीमारी या अशांति।
19	throat	bn	bn
	Q16364	en throat	en anterior part of the neck, in front of the vertebra
		hi	hi
20	97	bn	bn
	Q101929	en immunology	en branch of medicine studying the immune system
		hi प्रतिरक्षा विज्ञान	hi

Map the world

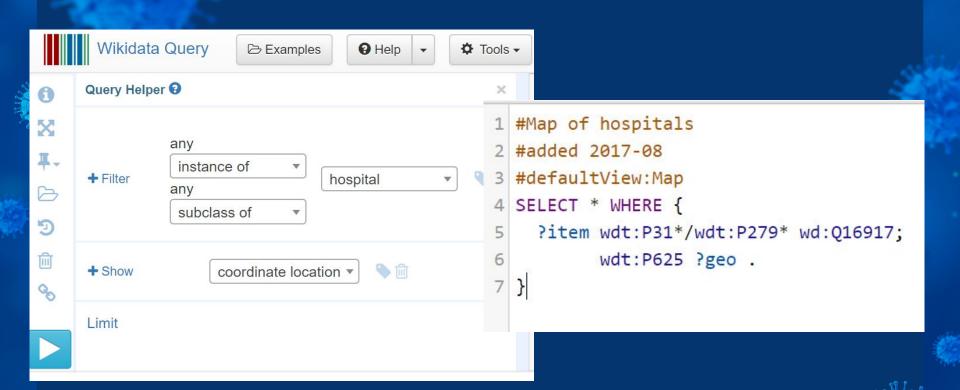




Dear Wiki,

Please show me <u>hospitals</u> by <u>location</u>.

your friend, Wikilover







Dear Wiki,

Please show me <u>disasters</u> by <u>location</u>.

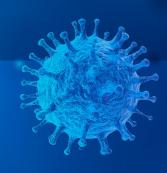
your friend, Wikilover





Browse academic publications





Academic publication

Wikipedia is a summary of reliable sources, such as articles from scholarly journals.



Why Medical Schools Should Embrace Wikipedia: Final-Year Medical Student Contributions to Wikipedia Articles for Academic Credit at One School

Amin Azzam, MD, MA, David Bresler, MD, MA, Armando Leon, MD, Lauren Maggio, PhD, Evans Whitaker, MD, MUS, James Hollman, MD, Jake Orlowitz, Valerie Swisher, Lane Rasberry, Kingsley Otoide, Fred Trotter, Will Ross, and Jack D. McCue, MD

Abstract

Most medical students use Wikipedia as an information source, yet medical schools do not train students to improve Wikipedia or use it critically.

Between November 2013 and November 2015, the authors offered fourth-year medical students a credit-bearing course to edit Wikipedia. The course was designed, delivered, and evaluated by faculty, medical librarians, and personnel from WikiProject Medicine, Wikipedia Education Foundation, and Translators Without Borders. The authors assessed the effect of the students' edits on Wikipedia's content, the effect of the

course on student participants, and readership of students' chosen articles.

Outcomes

Forty-three enrolled students made 1,528 edits (average 36/student), contributing 493,994 content bytes (average 11,488/student). They added higher-quality and removed lowerquality sources for a net addition of 274 references (average 6/student). As of July 2016, none of the contributions of the first 28 students (2013, 2014) have been reversed or vandalized. Students discovered a tension between comprehensiveness and readability/ translatability, yet readability of most articles increased. Students felt they

improved their articles, enjoyed giving back "specifically to Wikipedia," and broadened their sense of physician responsibilities in the socially networked information era. During only the "active editing months," Wikipedia traffic statistics indicate that the 43 articles were collectively viewed 1,116,065 times. Subsequent to students' efforts these articles have been viewed nearly

22 million times. **Next Steps**

If other schools replicate and improve on this initiative, future multi-institution studies could more accurately measure the effect of medical students on Wikipedia, and vice versa

Problem

The rise and spread of Internet accessibility has created an unprecedented resource for the dissemination of medical information. as well as an invaluable tool for health care providers and the general public alike. At the same time, opportunities for the rapid spread of misinformation or the misinterpretation of medical facts have never been greater. Clinicians must sometimes cently redirect patients who are convinced that they have some rare disease

Please see the end of this article for information about the authors.

Correspondence should be addressed to Amin Azzam, UCSF Department of Psychiatry, Box 0984-MSE, 401 Parmassus Ave., San Francisco, CA 94143-0984: telephone: (415) 476-7836: e-mail: Amin. Azzam@ucsf.edu; Twitter: @AminMDMA

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they have read about on the Internet. Although medical educators typically train students to address patient misperceptions in clinical practice, they are not leveraging clinician and medical student knowledge to improve the quality of the information patients and others find online.

Wikipedia is a free, online, multilingual encyclopedia that is continually and collaboratively created. Anyone with an Internet connection can edit its articles One of the most frequently visited Web sites worldwide, it is among the leading sources of health information for medical professionals and health care consumers alike.1 At the end of 2013, Wikipedia's medical content included over 155,000 articles written in 255 languages, supported by more than 950,000 references.3 Despite its increasingly prevalent use as a medical information resource in clinical practice, clinical instructors and faculty members often dissuade medical students from using Wikipedia, citing concern for its perceived inaccuracies and lack of traditional editorial controls.3

Although physicians and medical students are encouraged to contribute to

traditional sources of medical knowledge (e.g., textbooks and journals), the idea of benefiting from active contribution to crowd-sourced resources such as Wikipedia remains the perspective of a minority or fringe group within the academic medicine community.

We believe that not contributing to crowd-sourced resources represents a lost opportunity for enriching medical students' learning and for disseminating more accurate, up-to-date medical information to Wikipedia's readers worldwide.

We created what is, to our knowledge, the first formal medical school course worldwide through which medical students actively work to improve Wikipedia's health-related articles. We expected enrolled students to hone their information retrieval and assessment skills, practice communicating medical knowledge to an exceptionally broad global audience,3 and expand their sense of health care providers' roles in the Internet age. We designed our course with

Academic Medicine, Vol. XX, No. X / XXX XXXX

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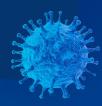
coronavirus disease (Q18975243)

A coronavirus disease (COVID;), coronavirus respiratory syndrome, coronavirus pneumonia, coronavirus flu, or members of the coronavirus (CoV) family. Coronaviruses cause different coronavirus diseases including severe a East respiratory syndrome (MERS), and coronavirus disease 2019 (COVID-19). Some strains of coronaviruses cau coronavirus outbreak, caused by COVID-19, was declared a pandemic by the World Health Organization (WHO Wikipedia)

Recently published works on the topic sees

Show 10 ▼ entries

Date	Work
2020- 12-01	Renin-angiotensin system inhibitors improve the clinical outcomes of COVID-19 patients with hypertension
2020- 12-01	Transcriptomic characteristics of bronchoalveolar lavage fluid and peripheral blood mononuclear cells in COVID-19 patients



Authors Authors publishing about the topic

Show 10 ▼ entries

Count	Author
27	Elisabeth Mahase
25	Viroj Wiwanitkit
23	Gareth Iacobucci
17	Abi Rimmer
14	Beuy Joob
14	Didier Raoult



Map of organizations associated with works about the topic

Topics Co-occurring topics

Show 10 ▼ entries

Count	Topic
5882	COVID-19
5343	SARS-CoV-2
889	COVID-19 pandemic
682	pandemic
48	severe acute respiratory syndrome
39	epidemiology
32	Middle East respiratory syndrome





COVID-19 (Q84263196)

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). It was first identified in December 2019 in Wuhan, China, and has since spread globally, resulting in an ongoing pandemic. As of 9 May 2020, more than 4 million cases have been reported across 187 countries and territories, resulting in more than 277,000 deaths. ... (from the English Wikipedia)

Clinical trials

Show 10 ▼ entries		Search:	
Start date	Trial	Intervention	Sponsor
2020-05-10	COVID-19 Pneumonitis Low Dose Lung Radiotherapy (COLOR-19)		
2020-03-16	Safety and Immunogenicity Study of 2019-nCoV Vaccine (mRNA-1273) for Prophylaxis of SARS-CoV-2 Infection (COVID-19)	mRNA-1273	National Institute of Allergy and Infectious Diseases
2020-03-12	Adaptive COVID-19 Treatment Trial		National Institute of Allergy and Infectious Diseases
2020-03-01	Nitric Oxide Gas Inhalation for Severe Acute Respiratory Syndrome in COVID-19.	nitric oxide (radical)	
2020-02-20	The Efficacy and Safety of Thalidomide in the Adjuvant Treatment of Moderate New Coronavirus (COVID-19) Pneumonia	thalidomide	
2020-02-14	Efficacy and Safety of Corticosteroids in COVID-19	methylprednisolone	
2020-02-14	Efficacy and Safety of Corticosteroids in COVID-19	prednisolone	
2020-02-14	Efficacy and Safety of Corticosteroids in COVID-19	methylprednisolone	



acetate

You can play with Wikidata and edit!

- Wikidata WikiProject COVID-19
- Scholia
- Wikidata Project Chat
- Wikidata Query Service

Thanks

The Signpost





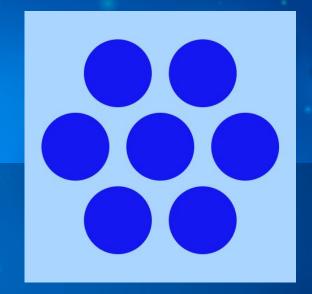




SWASTHA

Special Wikipedia Awareness Scheme for The Healthcare Affiliates





Lane Rasberry user:bluerasberry on Wikipedia rasberry@virginia.edu

slides from SlidesCarnival.com