

# Vaccine Safety

## English and Spanish Wikipedia

### Edit-a-thon

June 12, 2021



WIKIPEDIA  
The Free Encyclopedia

Presented by NewsQ, Wikimedia DC, and Wikimedia Mexico  
**Welcome! We will start shortly. Please use the link in the chat to  
access today's event page**

# Agenda



1. Welcome
2. Introductions
  - a. KNoW Science, Wikimedia DC, Wikimedia Mexico
3. Marifer Veloz, Subject matter expert
4. Training in English, Wikimedia DC - Breakout room
5. Training in Spanish, Wikimedia Mexico - Breakout room
6. Editing time



# KNOW SCIENCE @NewsQ

Knowledge Networks on the Web

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# Vaccine Misinformation & Vaccine Hesitancy



The World Health Organization has called **vaccine hesitancy** one of the top ten threats to global health in 2019.



Vaccine critical content outperforms vaccine positive content on social media



Vaccine-hesitant parents are more “susceptible to unverified reports of adverse effects of vaccination and scare tactics”



How can we ideate innovative ways to elevate reliable vaccine news and safety information for everyone online?

***Build cooperation***

among organizations and linguistically diverse communities that have similar interests in fortifying knowledge networks

**BUILD  
COLLABORATIONS**

***Prototypes for change***

in social media spaces that qualitatively and quantitatively contribute to improved information online

**PROTOTYPES FOR  
CHANGE**

**ANALYZE THE  
RESULTS**

***Analyze results***

for improved understanding of knowledge networks and future innovative activities that can contribute to a broad, diverse understanding of vaccine safety

**INVITE  
INNOVATION**

***Invite innovation***

especially from representatives of diverse communities, to propose their own social media related efforts to contribute to an overall culture of vaccine safety



**Wikipedia** is currently a central node in the online information ecosystem.

Through its role as a reliable information source for social networks, improvements to vaccine-related content on Wikipedia may have a greater effect on the reach of reliable vaccine information online.

# Join us in 2021!



- Monthly Vaccine Safety Edit-a-thons from April to October
  - Up next - Vaccine Safety Edit-a-thon, Arabic Wikipedia
- Check for updates on [newsq.net/blog](https://newsq.net/blog) or @NewsQInitiative
- [Wikipedia:Vaccine safety/Missing topics page](#)
- Vaccine Safety Google Group - Monthly task list



# Wikimedia DC

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Wikimedia DC is the regional outreach organization for Wikipedia and the other projects of the Wikimedia Foundation. Our mission is to promote participation in Wikimedia projects in Washington, DC, Maryland, Virginia, West Virginia, Delaware and throughout the United States.



Ariel Cetrone - Institutional  
Partnerships Manager  
User: Ariel Cetrone (WMDC)  
WikimediaDC.org



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Attribution: User:Ariel Cetrone (WMDC), Wikimedia DC

# Wikimedia Mexico

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Wikimedia México A.C. (WM-MX) es una asociación civil sin fines de lucro, bajo las regulaciones del Código Civil de México, que sirve como el capítulo de Wikimedia Foundation en México. Tiene el fin de difundir y promover en su jurisdicción a Wikipedia y los proyectos de la fundación.



Agustín Peña - Director Ejecutivo  
User:Agustín Peña (WMMX)  
[mx.wikimedia.org](https://mx.wikimedia.org)



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**Attribution: Agustín Peña (WMMX)**

# Breakout rooms: Editing training

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<b>Main room</b>	<b>Room 1</b>	<b>Room 2</b>
<b>General</b>	<b>Editing training, English Wikipedia</b>	<b>Editing training, Spanish Wikipedia</b>

# Event page



**WIKIPEDIA**  
The Free Encyclopedia

# Event page - Spanish and English

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- Wikimedia page with links to Wikipedia policies, practices, and tools
- Includes a list Wikipedia articles for creation or improvement
- Pages will remain live and accessible after the event.

# Event page - Article work list and more

- Use [link in chat](#) or go to [en.wikipedia.org](https://en.wikipedia.org) and enter [WMDC-VACC4](#)

## Wikipedia:Meetup/DC/Vaccine Safety Wikipedia Edit-a-thon June 12, 2021 [\[ edit source \]](#)

From Wikipedia, the free encyclopedia  
< [Wikipedia:Meetup](#) | [DC](#)

### Vaccine Safety Edit-a-thon - June 12, 2021

@WikimediaDC

Shortcut  
[WMDC-VACC4](#)

The World Health Organization has named vaccine hesitancy, or anti-vaccination, as one of the top ten threats to global health in 2019. At the same time, the spread of health-related misinformation has fueled concerns about the potential dangers or inefficacy of vaccines.

Wikipedia is an important resource for up-to-date, accurate vaccine information, and it is currently one of the most frequently visited sites for healthcare information worldwide.

NewsQ's KNoW Science initiative has partnered with the WHO's Vaccine Safety Net and Wikimedia DC to help expand Wikipedia's existing vaccine-related content.

As a part of these efforts KNoW Science, Wikimedia DC, and Wikimedia Mexico are organizing a Wikipedia edit-a-thon to evaluate and improve Wikimedia content about vaccines, including vaccine safety.





# Wikipedia

**What exactly is it, anyway???**

# What is Wikipedia?

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Wikipedia is a multilingual, web-based, **free encyclopedia based** on a model of **openly editable content**. It is the largest and most popular general reference work on the Internet. [Wikipedia] is supported by the Wikimedia Foundation, a non-profit organization which operates on money it receives from donors.

From Wikipedia (en)



# Wikipedia: the 21st-century encyclopedia

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*“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.”*

-Jimmy Wales, co-founder, Wikipedia

# About us

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Free as in beer, Free as in freedom ... gratis et libre

Created and edited by volunteers

Overseen by nonprofit Wikimedia Foundation

All edits and versions recorded forever (revision history)

6+ million articles, 270+ languages

# Free...

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All content freely licensed without restrictions

Creative Commons Attribution Sharealike or  
Public Domain

Written content or image/video/audio uploads

Wikimedia Commons - multimedia repository  
[commons.wikimedia.org](https://commons.wikimedia.org)

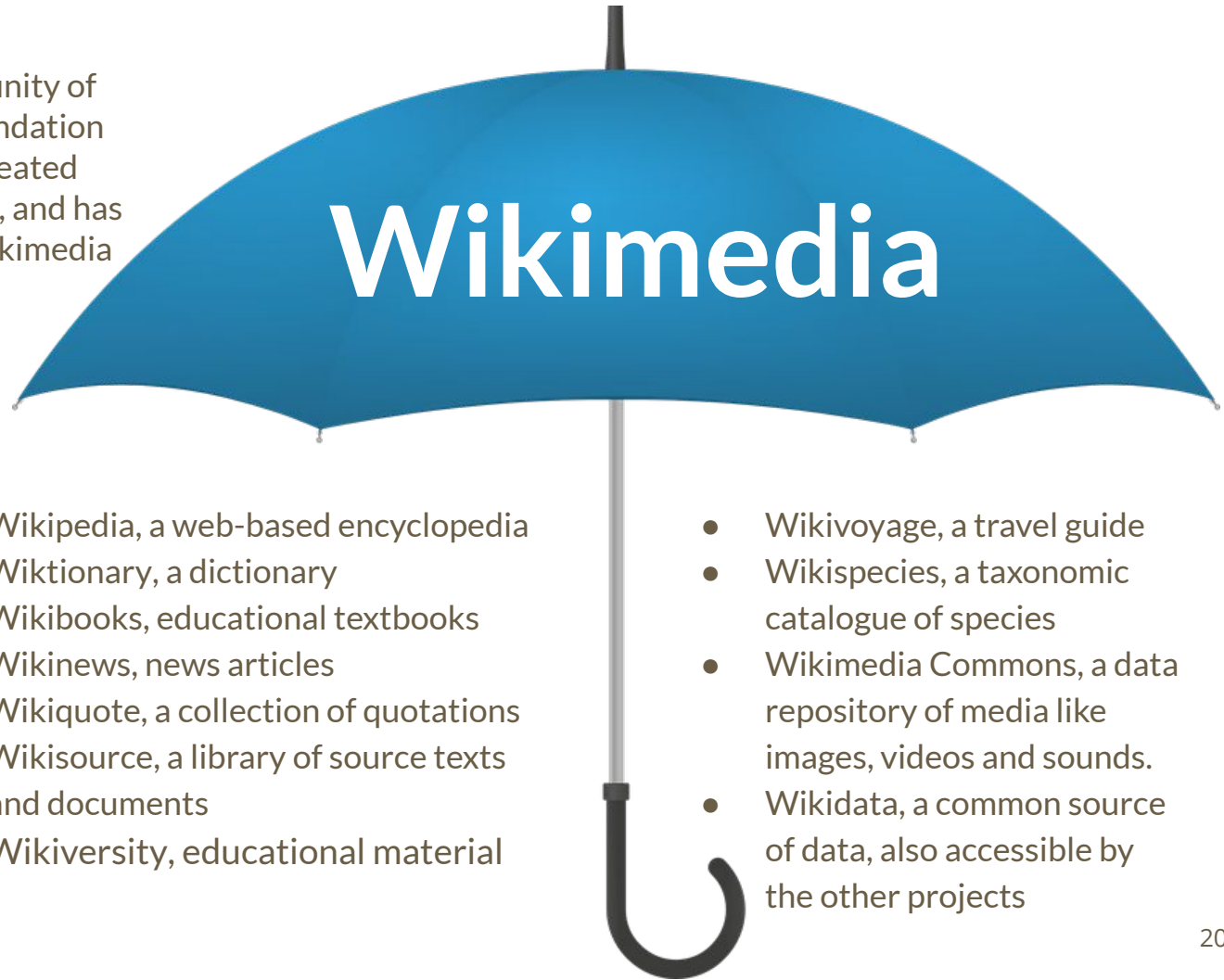
Commercial re-use is absolutely allowed. Google,  
publishers...



Wikimedia, is the global community of contributors to Wikimedia Foundation projects. The movement was created around Wikipedia's community, and has since expanded to the other Wikimedia projects.



- Wikipedia, a web-based encyclopedia
- Wiktionary, a dictionary
- Wikibooks, educational textbooks
- Wikinews, news articles
- Wikiquote, a collection of quotations
- Wikisource, a library of source texts and documents
- Wikiversity, educational material



- Wikivoyage, a travel guide
- Wikispecies, a taxonomic catalogue of species
- Wikimedia Commons, a data repository of media like images, videos and sounds.
- Wikidata, a common source of data, also accessible by the other projects

# Wikipedia Basics, Policies, and Oversight



**WIKIPEDIA**  
The Free Encyclopedia

# Wiki

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- A website where anyone can edit any page at any time
- Meant to be "quick"
- Remembers all versions (nothing ever destroyed)
- Hyperlinks between pages

# Wikipedia: Five Pillars

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- Wikipedia is an encyclopedia
- Wikipedia is written from a neutral point of view
- Wikipedia is free content that anyone can use, edit, and distribute
- Wikipedia's editors should treat each other with respect and civility
- Wikipedia has no firm rules

WP:Pillars

# Wikipedia Policies

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- **Neutral Point of View** - written so all sides can agree (WP:POV)
- **Notability** - significant independent sources -> importance (WP:N)\*
- **Verifiability** - Using reliable sources to reference information (WP:V)
- **No original research** - point to existing scholarship (WP: NOR)
- **Assume good faith** - start with congenial spirit (WP:GF)
- **Conflicts of interest** - disclose and abide by terms of service (WP:COI)

\*See also 'Category:Wikipedia notability guidelines'  
for more on notability by topic



# Is Wikipedia Reliable?

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- Wikipedia should not be considered a definitive source in and of itself
- It can be edited by anyone at any time meaning that any article can be subject to misinformation or vandalism
- Edits on Wikipedia that are in error may eventually be fixed
- Wikipedia is a volunteer-run project and cannot monitor every contribution all the time.
- Errors can go unnoticed for days, weeks, months, or even years

From WP: Wikipedia is not a reliable source

# Is Wikipedia Reliable? Quality Controls

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- Wikipedia is maintained by a community of volunteers
- Vandalism is identified and reverted by a combination of bots and individuals
- Widely read articles, like those about newsworthy topics such as politics, medicine, and science are monitored closer than others due to the number of views
- Wikiprojects, including patrol and thematic address article flaws and content gaps
- Admins and committees resolve issues when necessary

WP: Quality control, WP: Patrols, WP:Admin

# Wikiprojects

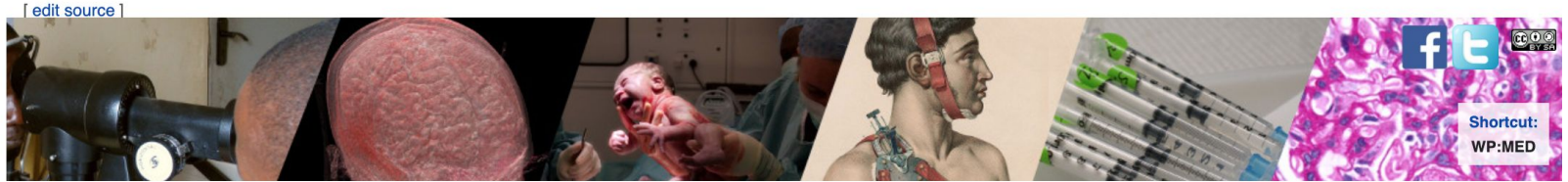
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- A group of contributors who want to work together as a team to improve Wikipedia
- Often focus on a specific topic area (for example, WikiProject Medicine) or a specific part of the encyclopedia (for example, WP:WikiProject Disambiguation), or a specific kind of task (for example, checking newly created pages).
- English Wikipedia currently has over 2,000 WikiProjects, about 1,000 of which are monitored by 30–2,000 editors

WP: Wikiproject

# Wikiproject Medicine

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## WikiProject Medicine

Welcome to **WikiProject Medicine**! We discuss, collaborate, and debate anything and everything relating to [medicine and health on Wikipedia](#) on our [discussion page](#).  
Everyone is welcome to join!

### Meet our members!



**Diptanshu Das**



**Mvolz**



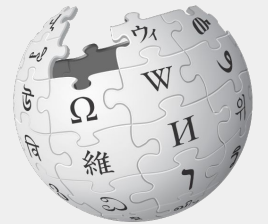
**Petergstrom**

[View Full List](#)

[Join WikiProject](#)

WP: Med

# Set Editing Preferences



**WIKIPEDIA**  
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# Wikipedia Editing Tools

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## VisualEditor

'Edit' button

VisualEditor is a "visual" way of editing Wikipedia that does not require editors to learn wiki markup. Until Visual Editor, editors had to learn wiki markup to make most edits.

VisualEditor works like a word processor. While is simpler to use, the Source Editor can be more effective for some tasks.

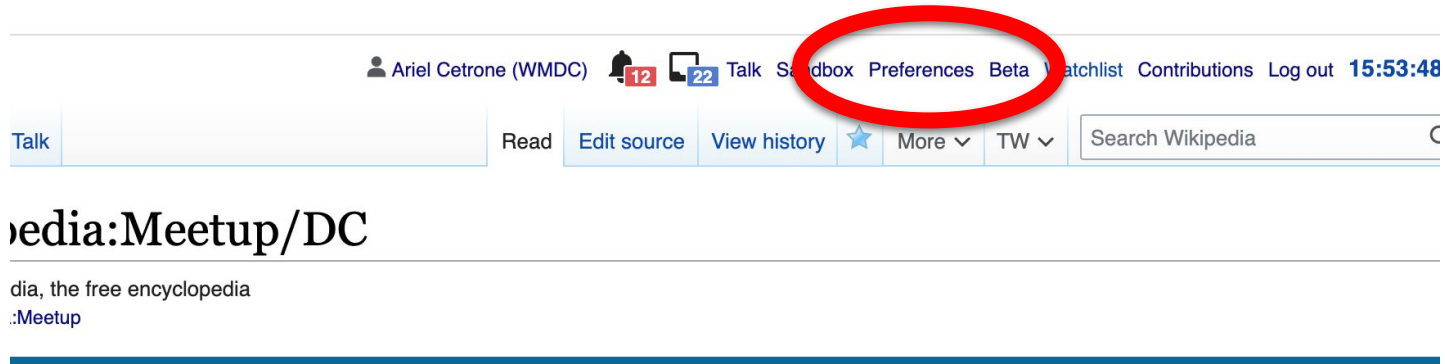
## Source Editor

'Edit source' button

Source editor uses Wikitext, also known as Wiki markup or Wikicode, which consists of the syntax and keywords used by the MediaWiki software to format a page.

# Set Editing Preferences: **Activate Visual Editor**

1. Open the Wiki event page or any Wikipedia article
2. Select 'Preferences' (Top right)



The screenshot shows the top navigation bar of a Wikipedia page. The user is identified as 'Ariel Cetrone (WMDC)'. There are notification icons for 12 new messages and 22 new pages. The navigation menu includes 'Talk', 'Sandbox', 'Preferences', 'Beta', 'Watchlist', 'Contributions', and 'Log out'. The 'Preferences' link is circled in red. Below the navigation bar, the page title is 'Media:Meetup/DC'. The page content includes the text 'edia, the free encyclopedia' and '.:Meetup'.

**et up with Wikipedians in Washington, DC!**  
are welcome to attend

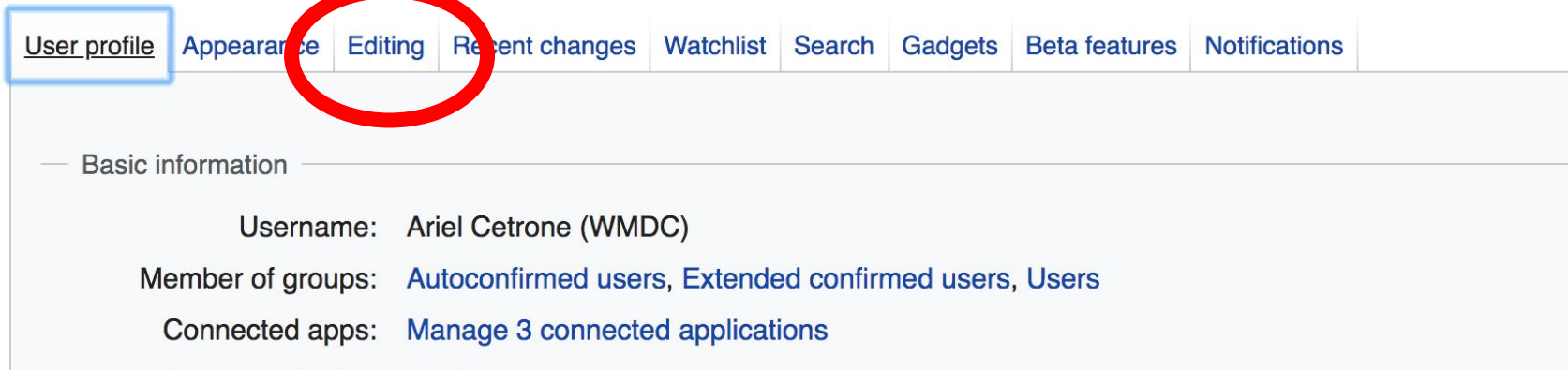


# Set Editing Preferences: Activate Visual Editor

## 3. Select the 'Editing' tab

### Preferences

For information about the settings on this page, see [Help:Preferences](#).



The screenshot shows the 'Preferences' page for a user. At the top, there is a navigation bar with several tabs: 'User profile', 'Appearance', 'Editing', 'Recent changes', 'Watchlist', 'Search', 'Gadgets', 'Beta features', and 'Notifications'. The 'Editing' tab is circled in red. Below the navigation bar, the 'Basic information' section is visible, showing the user's username as 'Ariel Cetrone (WMDC)', their group memberships as 'Autoconfirmed users, Extended confirmed users, Users', and their connected applications as 'Manage 3 connected applications'.

<a href="#">User profile</a>	<a href="#">Appearance</a>	<a href="#">Editing</a>	<a href="#">Recent changes</a>	<a href="#">Watchlist</a>	<a href="#">Search</a>	<a href="#">Gadgets</a>	<a href="#">Beta features</a>	<a href="#">Notifications</a>
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— Basic information —

Username: Ariel Cetrone (WMDC)

Member of groups: [Autoconfirmed users](#), [Extended confirmed users](#), [Users](#)

Connected apps: [Manage 3 connected applications](#)

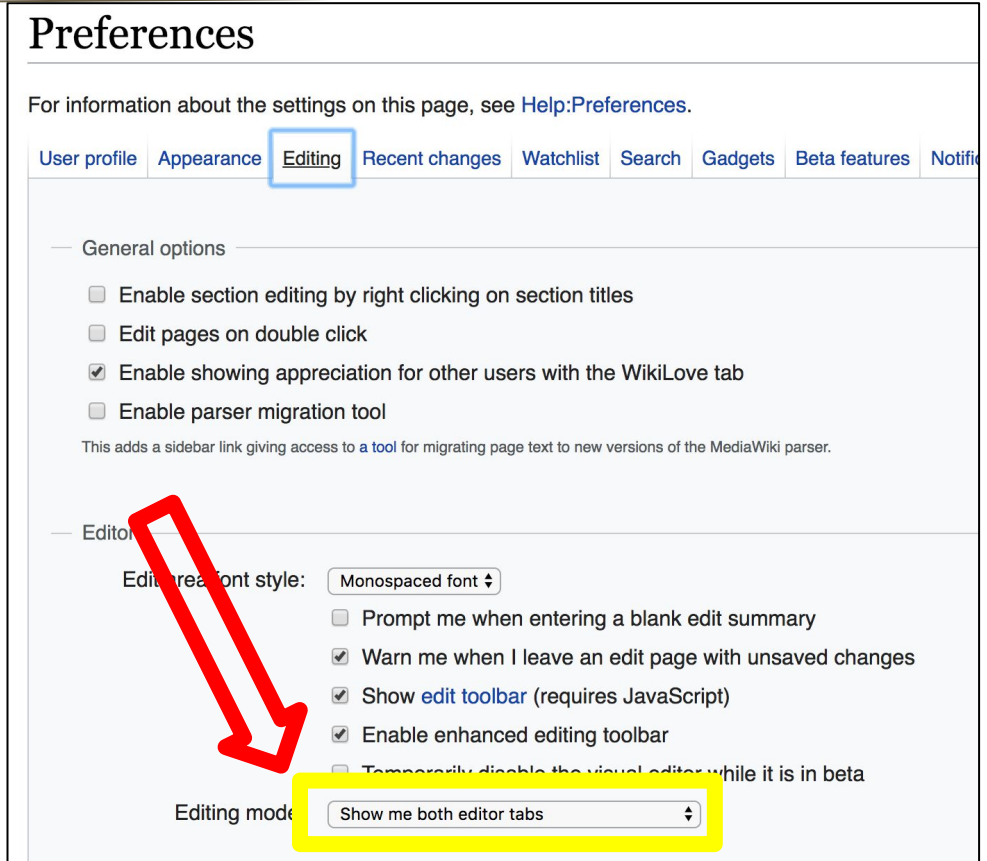


# Set Editing Preferences: Activate Visual Editor

4. Scroll down to 'Editor'

5. Select 'Show me Both Editor Tabs' from the 'Editing Mode' dropdown menu

6. Save (bottom left)



The screenshot shows the 'Preferences' page with the 'Editing' tab selected. Under the 'General options' section, there are four checkboxes: 'Enable section editing by right clicking on section titles' (unchecked), 'Edit pages on double click' (unchecked), 'Enable showing appreciation for other users with the WikiLove tab' (checked), and 'Enable parser migration tool' (unchecked). Below this is a note: 'This adds a sidebar link giving access to a tool for migrating page text to new versions of the MediaWiki parser.' Under the 'Editor' section, there is a dropdown for 'Editing mode' set to 'Show me both editor tabs'. A red arrow points to this dropdown. Other options in the 'Editor' section include 'Edit area font style' (set to 'Monospaced font'), 'Prompt me when entering a blank edit summary' (unchecked), 'Warn me when I leave an edit page with unsaved changes' (checked), 'Show edit toolbar (requires JavaScript)' (checked), 'Enable enhanced editing toolbar' (checked), and 'Temporarily disable the visual editor while it is in beta' (unchecked).

# User Page



**WIKIPEDIA**  
The Free Encyclopedia


# User Page

- All users/editors are assigned a user page
- Access user page by selecting your username (top right)

User page Talk

Ariel Cetrone (WMDC) 6 16 Talk


Read Edit Edit source View history

 **Wiki Loves Monuments: The world's largest photography competition**  
learn more about our history, and wir

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## User:Ariel Cetrone (WMDC)

From Wikipedia, the free encyclopedia

  
**WIKIMEDIA**  
DISTRICT OF COLUMBIA

**Ariel Cetrone is Institutional Partnerships Manager for Wikimedia DC.**

# User Page

- Share information and interests
- Use is optional unless editing as part of official duties

The screenshot displays the user page for Ariel Cetrone (WMDC). At the top right, the user's name 'Ariel Cetrone (WMDC)' is circled in red, along with a notification icon showing '6' and a 'Talk' button with '16' notifications. Below this, a navigation bar contains 'User page' and 'Talk' tabs, with 'User page' also circled in red. The main content area features a banner for 'Wiki Loves Monuments: The world's largest photography competition learn more about our history, and wir'. Below the banner, the user's name 'User:Ariel Cetrone (WMDC)' is displayed, followed by the text 'From Wikipedia, the free encyclopedia'. The Wikimedia District of Columbia logo is shown, and the bio states: 'Ariel Cetrone is Institutional Partnerships Manager for Wikimedia DC.'

# User Page: Sample Conflict of Interest Statement

For those editing as part of their professional duties

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## About Me

I am a paid employee of XYZ organization. We are working to make our resources more accessible to the public by working directly with Wikipedia.

## Conflict of interest statement

I am editing Wikipedia as part of my official duties at XYZ organization. I will abide by Wikipedia's accepted practices on conflicts of interest, neutrality, and notability. Because the mission of XYZ organization is in line with Wikipedia's mission to disseminate knowledge, I will not make edits that I do not believe are in accordance with Wikipedia's practices and procedures. If you believe I have made an error or violated Wikipedia's norms, please let me know.

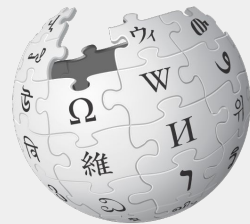
# Talk Page

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- Receive messages
- Communicate with other users

The screenshot shows the top navigation bar of a Wikipedia page. The 'Talk' tab is highlighted with a red circle. Below the navigation bar, the page title is 'User talk:Ariel Cetrone (WMDC) [edit source]'. Underneath the title, there is a sub-header 'From Wikipedia, the free encyclopedia'. A table of contents is displayed, listing five sections: '1 Welcome!', '2 Hi from the Teahouse!', '3 Edit-a-thon', '4 Ways to improve Shoomaker's Saloon', and '5 ArbCom 2017 election voter message'.

# Tabs and Article Anatomy



**WIKIPEDIA**  
The Free Encyclopedia

# Exploring Tabs: Article History

View all edits ever made by selecting 'View History'

Article [Talk](#) [Read](#) [Edit](#) [Edit source](#) [View history](#) [☆](#) [More](#) [TW](#)

## Polio vaccine [[edit](#) | [edit source](#)] [+](#)

ORES predicted quality: ★ [FA](#) (5.26)  
*A [good article](#) from Wikipedia, the free encyclopedia*

**Polio vaccines** are [vaccines](#) used to prevent [poliomyelitis](#) (polio).<sup>[2]</sup> Two types are used: an [inactivated](#) poliovirus given by injection (IPV) and a [weakened](#) poliovirus given by mouth (OPV).<sup>[2]</sup> The [World Health Organization](#) (WHO) recommends all children be fully vaccinated against polio.<sup>[2]</sup> The two vaccines have eliminated polio from most of the world,<sup>[3][4]</sup> and reduced the number of cases reported each year from an estimated 350,000 in 1988 to 33 in 2018.<sup>[5][6]</sup>

The inactivated polio vaccines are very safe.<sup>[2]</sup> Mild redness or pain may occur at the site of injection.<sup>[2]</sup> Oral polio vaccines cause about three cases of vaccine-associated paralytic poliomyelitis per million doses given.<sup>[2]</sup> This compares with 5,000 cases per million who are paralysed following a polio infection.<sup>[7]</sup> Both are generally safe to give during [pregnancy](#) and in those who have [HIV/AIDS](#) but are otherwise well.<sup>[2]</sup>

The first successful demonstration of a polio vaccine was by [Hilary Koprowski](#) in 1950, with a live attenuated virus which people drank.<sup>[8]</sup> The vaccine was not approved for use in the United States, but was used successfully elsewhere.<sup>[8]</sup> An inactivated polio vaccine, developed a few years later by [Jonas Salk](#), came into use in 1955.<sup>[2][9]</sup> A different, oral polio vaccine was developed by [Albert Sabin](#) and came into commercial use in 1961.<sup>[2][10]</sup> It is on the [World Health Organization's List of Essential Medicines](#).<sup>[11]</sup>

[Contents](#) [\[hide\]](#)

**Polio vaccine**



[Vaccine description](#)



# Exploring Tabs: Article History

View all edits ever made by selecting 'View History'

The screenshot shows the 'Revision history' page for the article 'Polio vaccine'. The page title is 'Polio vaccine: Revision history'. Below the title, there is a search bar and navigation tabs for 'Article' and 'Talk'. The main content area shows a list of revisions, each with a date, time, editor username, and a summary of the edit. Three callouts are present: 'Date' points to the date '22:43, 11 August 2020', 'Editor username' points to the editor 'Pikaryaa', and 'Edit summary' points to the summary '(Improve wording)'. The page also includes a 'Filter revisions' section and a 'Compare selected revisions' section.

Article [Talk](#) [Read](#) [Edit](#) [Edit source](#) [View history](#) [☆](#) [More](#) [TW](#)  [Q](#)

## Polio vaccine: Revision history ? [Help](#)

[View logs for this page \(view filter log\)](#)

[Filter revisions](#)

External tools: [Find addition/removal \(Alternate\)](#) · [Find edits by user](#) · [Page statistics](#) · [Pageviews](#) · [Fix dead links](#)

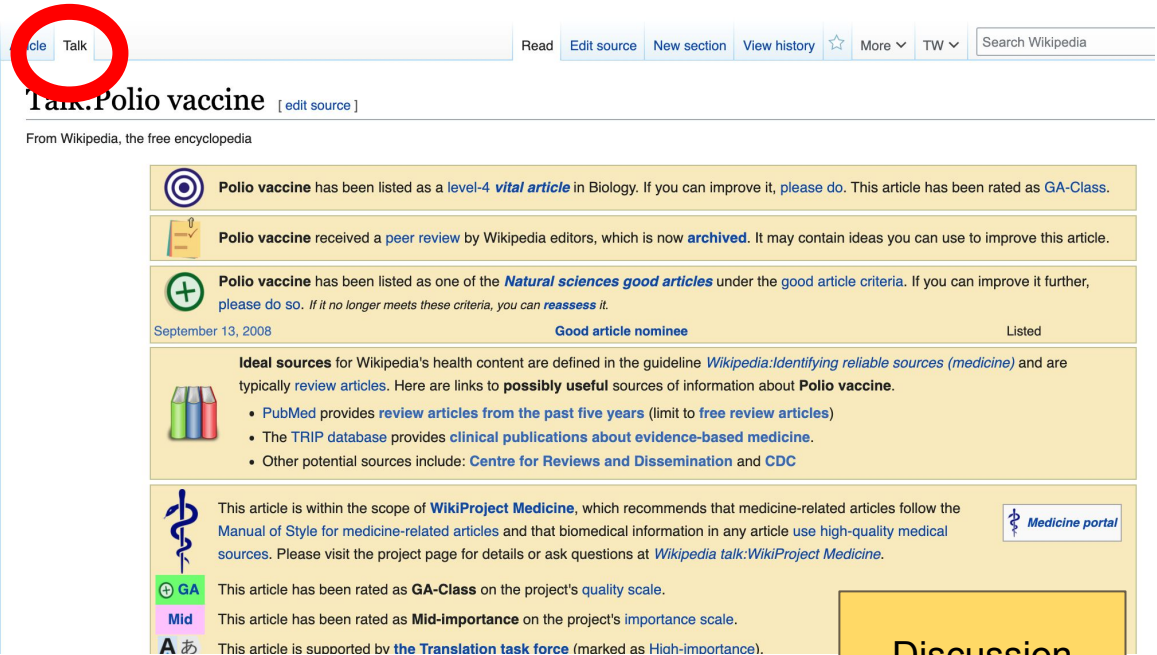
For any version listed below, click on its date to view it. For more help, see [Help:Page history](#) and [Help:Edit summary](#). (cur) = difference from current version, (prev) = difference from preceding version, **m** = minor edit → = section edit ← = automatic edit summary (newest | oldest) View (newer 50 | older 50) (20)

[Compare selected revisions](#)

- [\(cur | prev\)](#) [22:43, 11 August 2020](#) [Pikaryaa](#) (talk | contribs) [m](#) . . (73,177 bytes) (-2) . . *(Improve wording)* ([undo](#) | [thank](#)) (*Tags: Mobile edit, Mobile web edit, Visual edit, Advanced mobile edit*)
- [\(cur | prev\)](#) [22:43, 11 August 2020](#) [Pikaryaa](#) (talk | contribs) . . (73,179 bytes) (-5) . . *(→Attenuated: clarifying language)* ([undo](#) | [thank](#))
- [\(cur | prev\)](#) [19:03, 5 August 2020](#) [2605:6000:1523:8f2:6007:f551:5bd5:78bb](#) (talk) . . (73,184 bytes) (-10) . . *(→Contamination concerns)* ([undo](#))
- [\(cur | prev\)](#) [18:59, 5 August 2020](#) [2605:6000:1523:8f2:6007:f551:5bd5:78bb](#) (talk) . . (73,194 bytes) (-27) . . *(→Vaccine-induced polio)* ([undo](#))
- [\(cur | prev\)](#) [18:58, 5 August 2020](#) [2605:6000:1523:8f2:6007:f551:5bd5:78bb](#) (talk) . . (73,221 bytes) (+4) . . *(→Schedule)* ([undo](#))
- [\(cur | prev\)](#) [18:57, 5 August 2020](#) [2605:6000:1523:8f2:6007:f551:5bd5:78bb](#) (talk) . . (73,217 bytes) (+3) . . *(→Attenuated)* ([undo](#))
- [\(cur | prev\)](#) [18:55, 5 August 2020](#) [2605:6000:1523:8f2:6007:f551:5bd5:78bb](#) (talk) . . (73,214 bytes) (+1) . . *(→Inactivated)* ([undo](#))
- [\(cur | prev\)](#) [23:37, 27 July 2020](#) [JCW-CleanerBot](#) (talk | contribs) [m](#) . . (73,213 bytes) (-45) . . *(task, replaced: Proceedings of the Society for Experimental Biology and Medicine.*

# Exploring Tabs: Talk Page - Community Discussion

- Discuss the article with other editors
- Use is optional
- Can be used to add suggestions when one believes they have a conflict of interest





Article Talk


Read Edit source New section View history More TW Search Wikipedia

## Talk:Polio vaccine [ edit source ]

From Wikipedia, the free encyclopedia

 **Polio vaccine** has been listed as a **level-4 vital article** in Biology. If you can improve it, [please do](#). This article has been rated as **GA-Class**.



 **Polio vaccine** received a **peer review** by Wikipedia editors, which is now **archived**. It may contain ideas you can use to improve this article.


 **Polio vaccine** has been listed as one of the **Natural sciences good articles** under the good article criteria. If you can improve it further, [please do so](#). *If it no longer meets these criteria, you can reassess it.*


September 13, 2008 Good article nominee Listed


**Ideal sources** for Wikipedia's health content are defined in the guideline *Wikipedia:Identifying reliable sources (medicine)* and are typically **review articles**. Here are links to **possibly useful** sources of information about **Polio vaccine**.

- PubMed provides **review articles from the past five years** (limit to **free review articles**)
- The TRIP database provides **clinical publications about evidence-based medicine**.
- Other potential sources include: **Centre for Reviews and Dissemination** and **CDC**

 This article is within the scope of **WikiProject Medicine**, which recommends that medicine-related articles follow the *Manual of Style for medicine-related articles* and that biomedical information in any article [use high-quality medical sources](#). Please visit the project page for details or ask questions at *Wikipedia talk:WikiProject Medicine*.  [Medicine portal](#)

 **GA** This article has been rated as **GA-Class** on the project's [quality scale](#).

 **Mid** This article has been rated as **Mid-importance** on the project's [importance scale](#).

 **Aあ** This article is supported by **the Translation task force** (marked as High-importance).

Discussion

# Article Sections: Lead Paragraphs and infoboxes

Article Talk Read Edit Edit source View history ☆ More TW Search

## Polio vaccine [edit] [edit source]

ORES predicted quality: ★ FA (5.26)  
A *good article* from Wikipedia, the free encyclopedia

**Polio vaccines** are **vaccines** used to prevent **poliomyelitis** (polio).<sup>[2]</sup> Two types are used: an **inactivated** poliovirus given by injection (IPV) and a **weakened** poliovirus given by mouth (OPV).<sup>[2]</sup> The **World Health Organization** (WHO) recommends all children be fully vaccinated against polio.<sup>[2]</sup> The two vaccines have eliminated polio from most of the world,<sup>[3][4]</sup> and reduced the number of cases reported each year from an estimated 350,000 in 1988 to 33 in 2018.<sup>[5][6]</sup>

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The first successful demonstration of a polio vaccine was by **Hilary Koprowski** in 1950, with a live attenuated virus which people drank.<sup>[8]</sup> The vaccine was not approved for use in the United States, but was used successfully elsewhere.<sup>[8]</sup> An inactivated polio vaccine, developed a few years later by **Jonas Salk**, came into use in 1955.<sup>[2][9]</sup> A different, oral polio vaccine was developed by **Albert Sabin** and came into commercial use in 1961.<sup>[2][10]</sup> It is on the **World Health Organization's List of Essential Medicines**.<sup>[11]</sup>

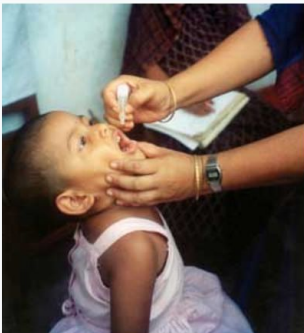
**Contents** [hide]

- Medical uses**

**Main photo or Infobox placement**

**Lead paragraphs**

### Polio vaccine



**Vaccine description**

<b>Target disease</b>	Poliomyelitis
<b>Developed by</b>	Jonas Salk, Albert Sabin, Hilary Koprowski

# Article Sections: References

To combat this, the WHO in 2016, decided to switch from the trivalent polio vaccine to the bivalent polio vaccine.<sup>[29]</sup> This vaccine no longer contains the type 2 polio virus because it was eradicated in 1999.<sup>[30]</sup>

## References [\[edit\]](#) [\[edit source\]](#)

- <sup>1</sup> <sup>^</sup> <sup>ab</sup> [Use During Pregnancy and Breastfeeding](#)
- <sup>2</sup> <sup>^</sup> <sup>abcdefghijklmnop</sup> World Health Organization (March 2016). "Polio vaccines: WHO position paper". *Weekly Epidemiological Record*. **91** (12): 145–68. [hdl:110665/254399](#). [PMID 27039410](#). [Lay summary](#)
- <sup>29</sup> <sup>^</sup> <sup>^</sup> "Re-vaccination of children in the United States: A report of the Advisory Committee on Immunization Practices". *MMWR*. **67** (11): 299–303. [doi:10.1093/mmwr/mmz027](#). [PMID 30770111](#). [Lay summary](#)
- <sup>30</sup> <sup>^</sup> "Poliomyelitis". *Encyclopedia of World Health*. **2019**. Retrieved 18 October 2019.
- <sup>31</sup> <sup>^</sup> <sup>abcd</sup> "Simian Virus 40 (SV40). Polio Vaccine. and". *Encyclopedia of World Health*. **2019**. Retrieved 18 October 2019.
- <sup>61</sup> <sup>^</sup> Hammon WM, Coriell LL, Wehrle PF, Stokes J (April 1953). "Evaluation of Red Cross gamma globulin as a prophylactic agent against poliomyelitis". *Journal of Biological Chemistry*. **100**: 1–10. [doi:10.1016/0021-9616\(53\)90001-1](#). [PMID 13563111](#). [Lay summary](#)

References or notes  
(Inline citations)

# Additional Sections

---

## Further reading [\[ edit | edit source \]](#)

- [Gray M, ed. \(1973\). "Polio: the green book, chapter 26" \*Immunisation against infectious disease\*. London: Public Health England.](#)
- [Wallace G, Alexander J \(2015\). "Chapter 18: Poliomyelitis" \*Epidemiology and Prevention of Vaccine-Preventable Diseases\* \(13th ed.\). Washington D.C.: U.S. Centers for Disease Control and Prevention \(CDC\). ISBN 978-0990449119.](#)
- [Routh JA, Oberste MS, Patel M \(2018\). "Chapter 12: Poliomyelitis" \*Manual for the surveillance of vaccine-preventable diseases\*. Atlanta, Georgia: U.S. Centers for Disease Control and Prevention \(CDC\).](#)

## External links [\[ edit | edit source \]](#)

- [Global Polio Eradication Initiative](#) final project to eliminate polio by 2018.
- [History of Vaccines Website – History of Polio](#) History of Vaccines, a project of the College of Physicians of Philadelphia
- [PBS.org](#) – 'People and Discoveries: Salk Produces Polio Vaccine 1952', [Public Broadcasting Service \(PBS\)](#)
- ["Conquering Polio"](#), *Smithsonian*, April 2005
- ["The Global Effort To Eradicate Polio"](#), *Dream 2047 Magazine*, April 2004
- ["IPOL – Poliovirus Vaccine Inactivated \(Monkey Kidney Cell\)" \*U.S. Food and Drug Administration \(FDA\)\*. 11 December 2019. STN: 103930.](#)
- [Poliovirus Vaccines](#) at the US National Library of Medicine [Medical Subject Headings \(MeSH\)](#)

Categories (+): [Polio](#) (–) (±) | [1952 in biology](#) (–) (±) | [1955 introductions](#) (–) (±) | [American inventions](#) (–) (±) | [Inactivated vaccines](#) (–) (±) | [Live vaccines](#) (–) (±) | [Vaccines](#) (–) (±) | [World Health Organization essential medicines \(vaccines\)](#) (–) (±) | (+)

# Editing Existing Articles



WIKIPEDIA  
The Free Encyclopedia

# Editing with Visual Editor

1. Open a Wikipedia article
2. Select 'Edit'
3. Add and remove text as you would in a word processor

Unsure if you are in Visual Editor? Are you not seeing the 'Edit' button?  
Select 'Edit Source', select the Pencil (red), select 'Visual editing'

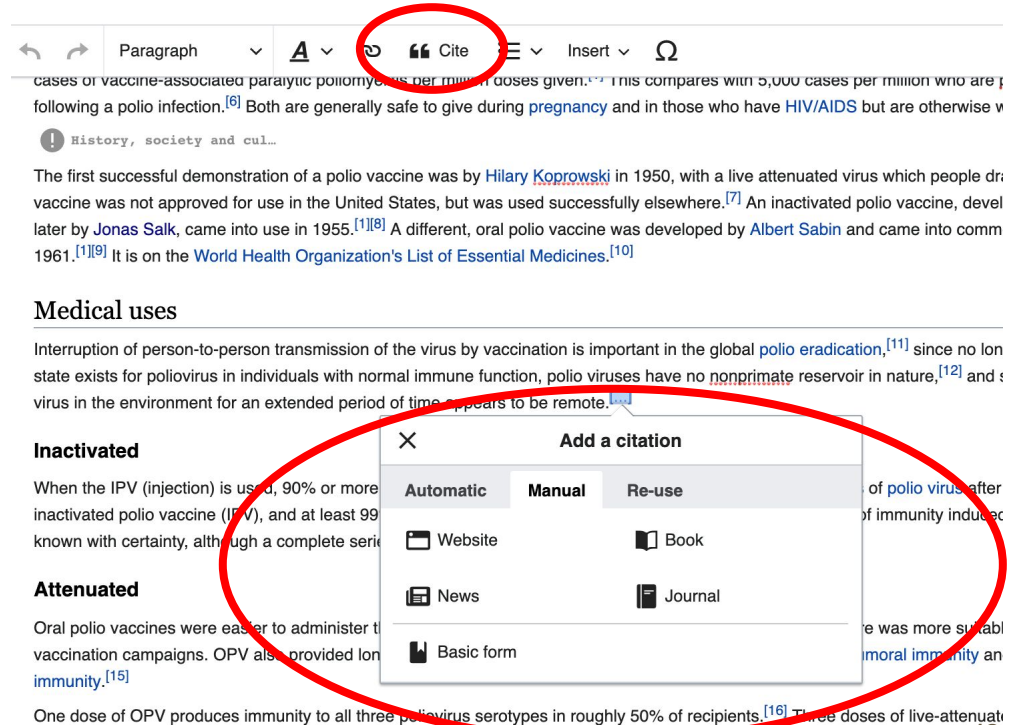
The screenshot shows the Wikipedia editing interface for the article "Polio vaccine". The top navigation bar includes "Article" and "Talk" tabs, and a menu with "Read", "Edit", "Edit source", "View history", "More", and "TW". A search box is on the right. Below the navigation bar is a toolbar with icons for undo, redo, Paragraph, text color, link, cite, list, insert, and help. The main content area shows the article title "Polio vaccine" with "[ edit | edit source ]" links, ORES quality "★ FA (5.26)", and a note "A good article from Wikipedia, the free encyclopedia". A dropdown menu is open over the "Edit" button, showing "Visual editing" (selected) and "Source editing". A red circle highlights the "Edit" button and the dropdown menu. A yellow callout box labeled "Formatting buttons" points to the toolbar. Another yellow callout box labeled "Edit buttons" with the text "Edit = Visual Editor, Edit Source = Code" points to the "Edit" button and the dropdown menu.

# Citing Your Sources

1. Place cursor in desired location

2. Select 'Cite'

3. Select 'Automatic' (for URLs, etc.), 'Manual' (to customize fields), or 'Reuse' (to cite a source that has already been used)



Paragraph

Cite

cases of vaccine-associated paralytic poliomyelitis per million doses given.<sup>[6]</sup> This compares with 5,000 cases per million who are following a polio infection.<sup>[6]</sup> Both are generally safe to give during pregnancy and in those who have HIV/AIDS but are otherwise v

History, society and cul...

The first successful demonstration of a polio vaccine was by Hilary Koprowski in 1950, with a live attenuated virus which people dr vaccine was not approved for use in the United States, but was used successfully elsewhere.<sup>[7]</sup> An inactivated polio vaccine, devel later by Jonas Salk, came into use in 1955.<sup>[1][8]</sup> A different, oral polio vaccine was developed by Albert Sabin and came into comm 1961.<sup>[1][9]</sup> It is on the World Health Organization's List of Essential Medicines.<sup>[10]</sup>

### Medical uses

Interruption of person-to-person transmission of the virus by vaccination is important in the global polio eradication,<sup>[11]</sup> since no lon state exists for poliovirus in individuals with normal immune function, polio viruses have no nonprimate reservoir in nature,<sup>[12]</sup> and s virus in the environment for an extended period of time appears to be remote.<sup>[13]</sup>

#### Inactivated

When the IPV (injection) is used, 90% or more inactivated polio vaccine (IPV), and at least 99 known with certainty, although a complete seri

#### Attenuated

Oral polio vaccines were easier to administer t vaccination campaigns. OPV also provided lon immunity.<sup>[15]</sup>

One dose of OPV produces immunity to all three poliovirus serotypes in roughly 50% of recipients.<sup>[16]</sup> Three doses of live-attenuat

Close

Add a citation

Automatic Manual Re-use

Website Book

News Journal

Basic form



# Citing Your Sources

4a. Populate fields (when selecting 'Automatic' and 'Manual')

4b. Select source that's already listed (when selecting 'Reuse')

5. Select 'Insert'

cases of vaccine-associated paralytic poliomyelitis per million doses given.<sup>[6]</sup> This compares with 5,000 cases per million who are following a polio infection.<sup>[6]</sup> Both are generally safe to give during pregnancy and in those who have HIV/AIDS but are otherwise v

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**Add a citation**

Automatic Manual Re-use

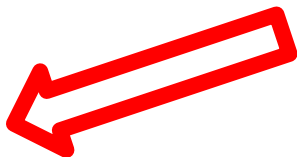
Website Book

News Journal

Basic form

# Adding Sections with Headings

---



## Manufacture [\[ edit | edit source \]](#)

---

### Inactivated [\[ edit | edit source \]](#)

The Salk vaccine, IPV, is based on three wild, [virulent](#) reference strains, Mahoney (type 1 poliovirus), MEF-1 (type 2 poliovirus), and Saukett (type 3 poliovirus), grown in a type of monkey [kidney](#) tissue culture ([Vero cell](#) line), which are then inactivated with [formalin](#).<sup>[47]</sup> The injected Salk vaccine confers [IgG](#)-mediated immunity in the bloodstream, which prevents polio infection from progressing to [viremia](#) and protects the [motor neurons](#), thus eliminating the risk of [bulbar polio](#) and [post-polio syndrome](#).

In the United States, vaccine is administered along with the [tetanus](#), [diphtheria](#), and [acellular pertussis](#) vaccines ([DTaP](#)) and a pediatric dose of [hepatitis B](#) vaccine.<sup>[16]</sup> In the UK, IPV is combined with tetanus, diphtheria, pertussis, and [Haemophilus influenzae](#) type b vaccines.<sup>[48]</sup>

# Adding Sections with Headings

1. Place cursor

2. Select 'Paragraph'

3. Select 'Heading'

The screenshot shows a text editor interface. A dropdown menu is open, displaying various text formatting options. The 'Paragraph' option is circled in red, and the 'Heading' option is also circled in red. Below the menu, a new section with the heading 'Manufacture' is highlighted in yellow, with a red arrow pointing to it. The text in the background is partially visible, showing a paragraph about polio vaccine.

Paragraph

Heading

Sub-heading 1

Sub-heading 2

Sub-heading 3

Sub-heading 4

Preformatted

Block quote

Page title

New section with heading

Manufacture

Inactivated

# Adding Sections with Headings

---

## 4. Name heading

## 5. Hit return/enter to default back to 'paragraph text and begin typing

contaminated polio vaccine as late as 1957; the study again revealed no increased cancer incidence between persons who received the vaccine and those who did not. The question of whether SV40 causes cancer in humans remains controversial, however, and the development of improved methods to resolve the controversy.<sup>[34]</sup>

During the race to develop an oral polio vaccine, several large-scale human trials were undertaken. By 1958, the National Institutes of Health determined that OPV produced using the Sabin strains were the safest.<sup>[38]</sup> Between 1957 and 1960, however, Hilary Koprowski distributed his vaccine around the world. In Africa, the vaccines were administered to roughly one million people in the Belgian territories of the Congo, Rwanda, and Burundi.<sup>[39][40]</sup> The results of these human trials have been controversial,<sup>[41]</sup> and unforeseen complications in the 1990s arose that the vaccine had created the conditions necessary for transmission of simian immunodeficiency virus from chimpanzees to humans, causing HIV/AIDS. These hypotheses, however, have been conclusively refuted.<sup>[39]</sup> By 2004, cases of poliomyelitis in Africa were limited to a small number of isolated regions in the western portion of the continent, with sporadic cases elsewhere. Recent local opposition to vaccination campaigns have evolved due to lack of adequate information,<sup>[42][43]</sup> often relating to fears that the vaccine might induce sterility, which has since resurged in Nigeria and in several other African nations without necessary information, which epidemiologists believe is due to local populations not allowing their children to receive the polio vaccine.<sup>[45]</sup>

### Sample article heading

---

#### Manufacture

---

#### Inactivated

# Creating Links Between Wikipedia Articles

1. Select text

2. Select link icon

3. Select article and  
'Done'

\*When adding an external link in an external links section, enter the title of what you are adding, highlight the text, select the link icon, paste a URL, and select 'Done'.

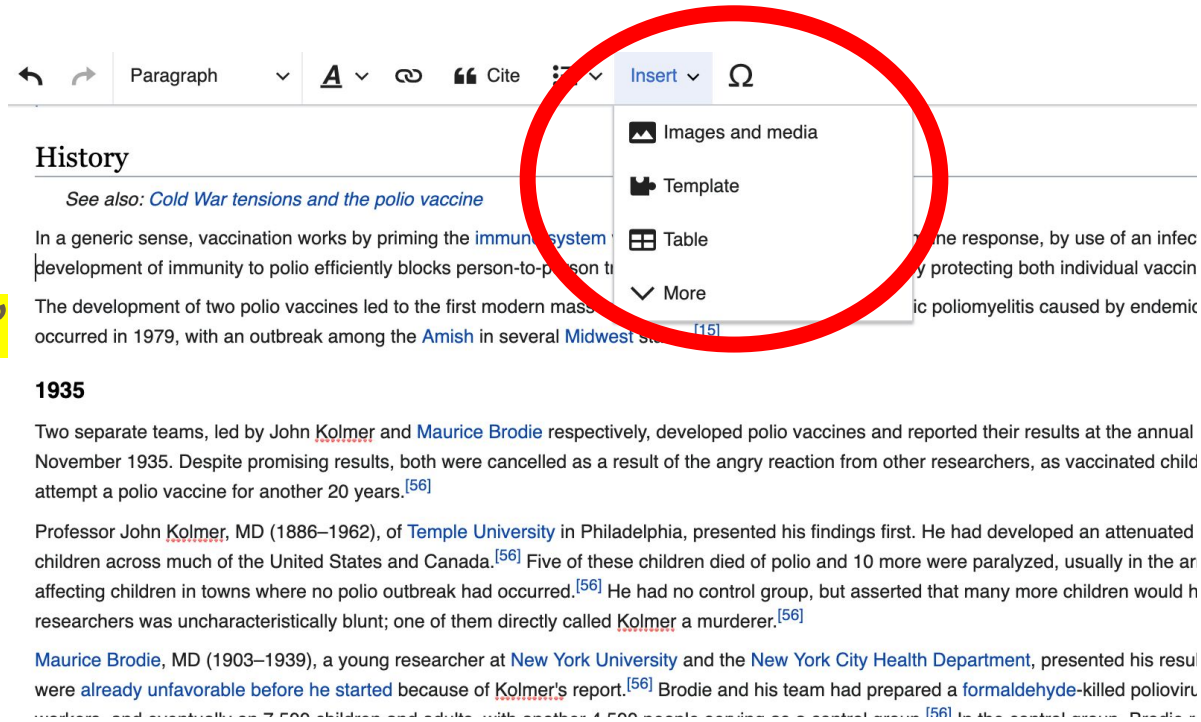
The screenshot shows the Wikipedia editing interface for the article "Polio vaccine". The top toolbar contains various editing tools, with the "Link" icon (a chain link) circled in red. Below the toolbar, the article title "Polio vaccine" is visible, along with a quality rating of "FA (5.26)" and a note that it is a "good article". The main content area shows the beginning of the article text, which includes a definition of polio vaccines and their use. An "Edit link" dialog box is open, displaying search results for "World Health Organization". The dialog has a search bar containing "World Health Organization" and a list of search results, including "World Health Organization", "World Health Organization's response to the...", "World Health Organization ranking of health...", "World Health Organization Goodwill Ambas...", and "World Health Organization collaborating cen...". The "Done" button is visible in the top right corner of the dialog.

# Adding Photos with Wikimedia Commons

1. Place cursor in desired location (left or right)

2. Select: 'Insert' + Media'

3. Enter search term



The screenshot shows the Wikipedia editing interface. The top toolbar includes options for Paragraph, text formatting (bold, italic, underline), link, quote, cite, and insert. The 'Insert' dropdown menu is open, showing options for 'Images and media', 'Template', 'Table', and 'More'. A red circle highlights the 'Insert' menu and the 'Images and media' option. Below the toolbar, the 'History' section is visible, followed by a paragraph of text about polio vaccination. The text includes references to 'Cold War tensions and the polio vaccine', 'immunology system', 'Amish', and 'Midwest states'. A section titled '1935' follows, describing the development of polio vaccines by John Kolmer and Maurice Brodie in 1935. The text mentions that their results were cancelled due to an angry reaction from other researchers. It also notes that Professor John Kolmer presented his findings first, and Maurice Brodie presented his results later, which were already unfavorable before he started because of Kolmer's report.

# Adding Photos with Wikimedia Commons

4. Enter search term

5. Select photo + 'Use this image'

Media settings

Search Upload

Polio Vaccine

The screenshot shows the Wikimedia Commons search interface. The search bar contains 'Polio Vaccine'. Below the search bar, there are six search results displayed in a grid. The first result is a photograph of a child receiving a polio vaccine, with the caption 'Poliodrops'. The second result is a historical poster titled 'The Salt Vaccine' and 'Here's why Polio isn't licked yet!', with the caption 'Here's Why Polio Isn't Licked Yet (IA PolioIsntLickedYet)'. The third result is a document titled 'THE SV-40 VIRUS- HAS TAI...', with the caption 'THE SV-40 VIRUS- HAS TAI...'. The fourth result is a world map showing the global distribution of polio, with the caption 'Poliodrops'. The fifth result is a document titled 'GENERAL BOARD OF HEALTH OF POLIO AND MEASLES', with the caption 'GENERAL BOARD OF HEALTH OF POLIO AND MEASLES'. The sixth result is a line graph titled 'Poliomyelitis in Deutschland, 1910 - 2018', with the caption 'Poliomyelitis in Deutschland, 1910 - 2018'. The graph shows the number of polio cases in Germany from 1910 to 2018, with a significant peak in the early 1950s and a sharp decline after the introduction of the OPV vaccine in 1955. The graph is labeled with 'Beginn Impfung (OPV)' and 'Umstellung Impfung (IPV) Europa ist poliofrei'.

Poliodrops

Here's Why Polio Isn't Licked Yet (IA PolioIsntLickedYet)

THE SV-40 VIRUS- HAS TAI...

Poliodrops

GENERAL BOARD OF HEALTH OF POLIO AND MEASLES

Poliomyelitis in Deutschland, 1910 - 2018

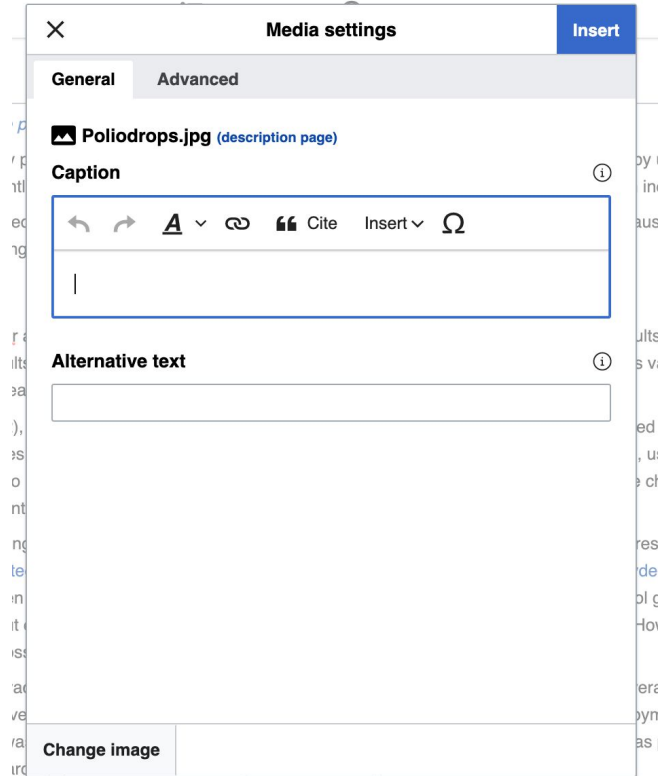
Beginn Impfung (OPV)

Umstellung Impfung (IPV) Europa ist poliofrei

# Adding Photos with Wikimedia Commons

6. Caption your image and add alternative text

7. Select 'Insert'





# Adding Categories

---

1. Leave Editing mode

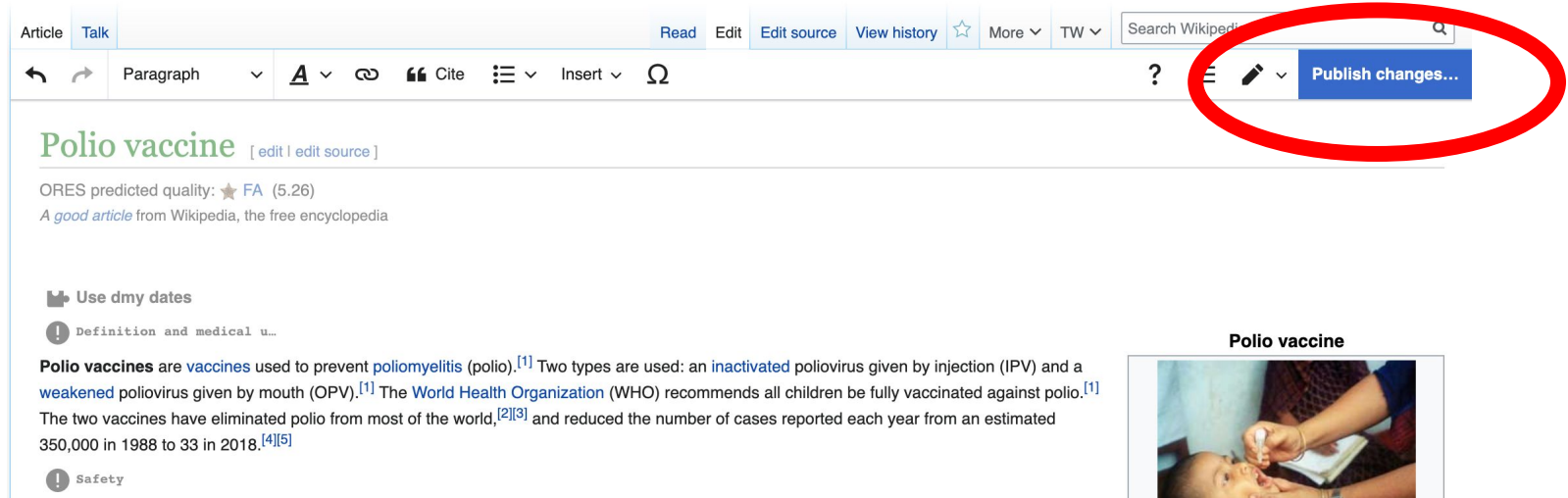
2. Select +

3. Type the category name into the field, i.e. 'Vaccines'. Only existing categories will appear in the list of options. You may create new categories.

4. Select 'Apply Changes'

Categories (+): Polio (-) (±) | 1952 in biology (-) (±) | 1955 introduction (-) (±) | American inventions (-) (±) | Inactivated vaccines (-) (±) | Live vaccines (-) (±) | Vaccines (-) (±)  
| World Health Organization essential medicines (vaccines) (-) (±) | (+)

# Don't forget to 'Publish' often



The screenshot shows the Wikipedia article edit interface for 'Polio vaccine'. The top navigation bar includes 'Article', 'Talk', 'Read', 'Edit', 'Edit source', 'View history', and 'More'. The 'Publish changes...' button is highlighted with a red circle. The article content includes a quality rating of 'FA (5.26)', a 'Use dmy dates' warning, a 'Definition and medical u...' warning, and a paragraph about polio vaccines. A small image of a child receiving a vaccine is also visible.

Article [Talk](#) [Read](#) [Edit](#) [Edit source](#) [View history](#) [?](#) [TW](#)

Paragraph [A](#) [Cite](#) [Insert](#) [Ω](#) [?](#) [Publish changes...](#)

## Polio vaccine [\[ edit \]](#) [\[ edit source \]](#)

ORES predicted quality: ★ [FA](#) (5.26)  
*A good article* from Wikipedia, the free encyclopedia


**Use dmy dates**

**!** Definition and medical u...

**Polio vaccines** are [vaccines](#) used to prevent [poliomyelitis](#) ([polio](#)).<sup>[1]</sup> Two types are used: an [inactivated](#) poliovirus given by injection (IPV) and a [weakened](#) poliovirus given by mouth (OPV).<sup>[1]</sup> The [World Health Organization](#) (WHO) recommends all children be fully vaccinated against polio.<sup>[1]</sup> The two vaccines have eliminated polio from most of the world,<sup>[2][3]</sup> and reduced the number of cases reported each year from an estimated 350,000 in 1988 to 33 in 2018.<sup>[4][5]</sup>

**!** Safety

**Polio vaccine**



To quickly abandon changes made to an article, select 'Read' (next to Edit/Edit Source) and your edits will not be saved.

# Additional tips

---

- Search hyperlinked articles for relevant information
- 'Copy and Paste' is acceptable between WP articles as long as content is relevant and the original articles/editors are credited in the 'Edit Summary' box
- Also a good way to find new sources

# Creating New Articles



**WIKIPEDIA**  
The Free Encyclopedia

# Editing/starting English articles from the event page

- Use **link in chat.**
- Select English if needed

The screenshot shows a user interface for an event page. At the top, there is a header bar with a profile icon on the left, Malayalam text in the center: "പുതിയ കാര്യനിർവാഹകർക്കുവേണ്ടിയുള്ള തിരഞ്ഞെടുപ്പ് ഇവിടെ നടക്കുന്നു. ദയവായി താങ്കളുടെ വോട്ടവകാശം വിനിയോഗിക്കുക.", and a home icon on the right. Below this is a sub-header with the text "വിക്സിപീഡിയ:വാക്സിൻ തിരുത്തൽ യജ്ഞം 2021" and a language selector showing "ഇംഗ്ലീഷ് വിലാസം" and "പ്രദർശിപ്പിക്കുക". The main content area is enclosed in a red border and contains the heading "വാക്സിൻ തിരുത്തൽ യജ്ഞത്തിലേക്ക് സ്വാഗതം!". Below the heading is a row of blue buttons: "പ്രധാന പദ്ധതി താൾ", "ലേഖനങ്ങളുടെ പട്ടിക", "ഉദ്ഘാടനം", "പങ്കെടുക്കുന്നവർ", "പുതിയ", and "In English". The "In English" button is circled in red.

# Creating New Articles

## Two Methods



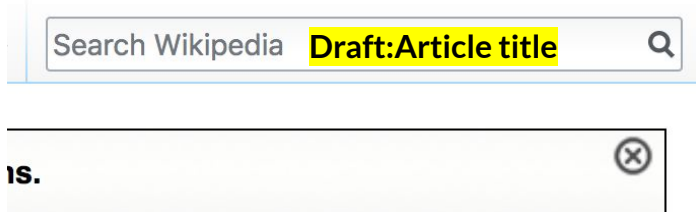
**WIKIPEDIA**  
The Free Encyclopedia

# Creating Articles: Drafts

---

## 1a. Start a 'Draft'

- Enter **Draft:Article title** into WP search bar
- Click the red link to start the article
- Start writing and publish as you go



# Creating Articles: Drafts

---

- When ready to move your draft to Wikipedia mainspace, go to the draft and select 'More' then 'Move'





# Creating Articles: Drafts

---

- Select 'Article' from the New Title dropdown menu and check that 'Draft' has been removed from the title
- Select 'Move Page'

← Draft:Delita Martin

Using the form below will rename a page, moving all of its history to the new name. The old title will become a [redirect](#) page to the new title. **Links to the old page** This can be a drastic and unexpected change for a **popular page**; please be sure you understand the consequences of this before proceeding. Please read [Wikipedia:Moving a page](#) for detailed instructions.

**Move page**

New title:

Reason:

Watch both page and target page

Move log

**Or...**

# Creating Articles: Drafts

---

## 1b. Use the Article Wizard - (Search **Wikipedia: Article Wizard**)

- Follow prompts
- Publish in draft form



Wikipedia Article Wizard

**Welcome**

Thank you for your interest in contributing to Wikipedia!

Before starting the process of creating an article, you can get the hang of things by first editing in **your sandbox**. It's a great way to practice your editing skills without affecting live articles.

If you need some help along the way, check out our **editing guide**.

Next

Edit sandbox

# Creating Articles: Sandbox

---

## 2. Practice using your Sandbox

- Select Sandbox
- Select Edit or Edit Source
- Create article or section
- 'Move' draft to a mainspace article



The screenshot shows the top navigation bar of a Wikipedia user page. The user is identified as 'Ariel Cetrone (WMDC)'. There are notification icons for 7 new messages and 23 new pages. The navigation menu includes 'Talk', 'Sandbox', 'Preferences', 'Beta', 'Watchlist', and 'Contri'. Below this, there are tabs for 'User page' and 'Talk'. A secondary navigation bar contains 'Read', 'Edit', 'Edit source', 'View history', 'more', and 'TW'. A search box labeled 'Search Wikipedia' is on the right. The 'Sandbox' link in the top navigation bar is circled in red.

User:Ariel Cetrone (WMDC)/sandbox

---

# Let's Edit!



**WIKIPEDIA**  
The Free Encyclopedia

# Editing/starting English articles from the event page

---

## Existing articles: Select blue link then 'Edit'

### Suggested worklist [\[ edit source \]](#)

---

The PREVIOUS Outreach Dashboard from April; Please reserve the article you plan to edit. This will avoid cross-editing or two editors working on the same article at once [↗](#).

**Editors are not restricted to the vaccine-related content on this list. Feel free to edit other articles as well.**

### Low expertise [\[ edit source \]](#)

- [Vaccine Safety Net](#)
- [Global Advisory Committee on Vaccine Safety](#)
- [National Centre for Immunisation Research and Surveillance \(Australia\)](#)
- [Croatian Institute of Public Health](#)
- [Medicines Control Authority of Zimbabwe](#)
- [Ministry of Health \(Kingdom of Bahrain\)](#)
- [Saudi Food and Drug Authority](#)
- [Public Health Institute of Chile](#)
- [National Public Health Institute \(Hungary\)](#)
- More organizations are listed [here](#). Here is a sample article on [GAVI](#) that can be used for inspiration.
- [List of COVID-19 vaccine authorizations](#) (add missing countries to the list)