



DR. MIKAEL HAGGSTROM

WIKIMANIA STOCKHOLM

# WikiJournal

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# Outline

Wikipedia background

WikiJournal structure and features

Sister project proposal

# Wikipedia Background

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How medical Wikipedia interacts with  
the world



Picture A (image attribut

# Wikipedia

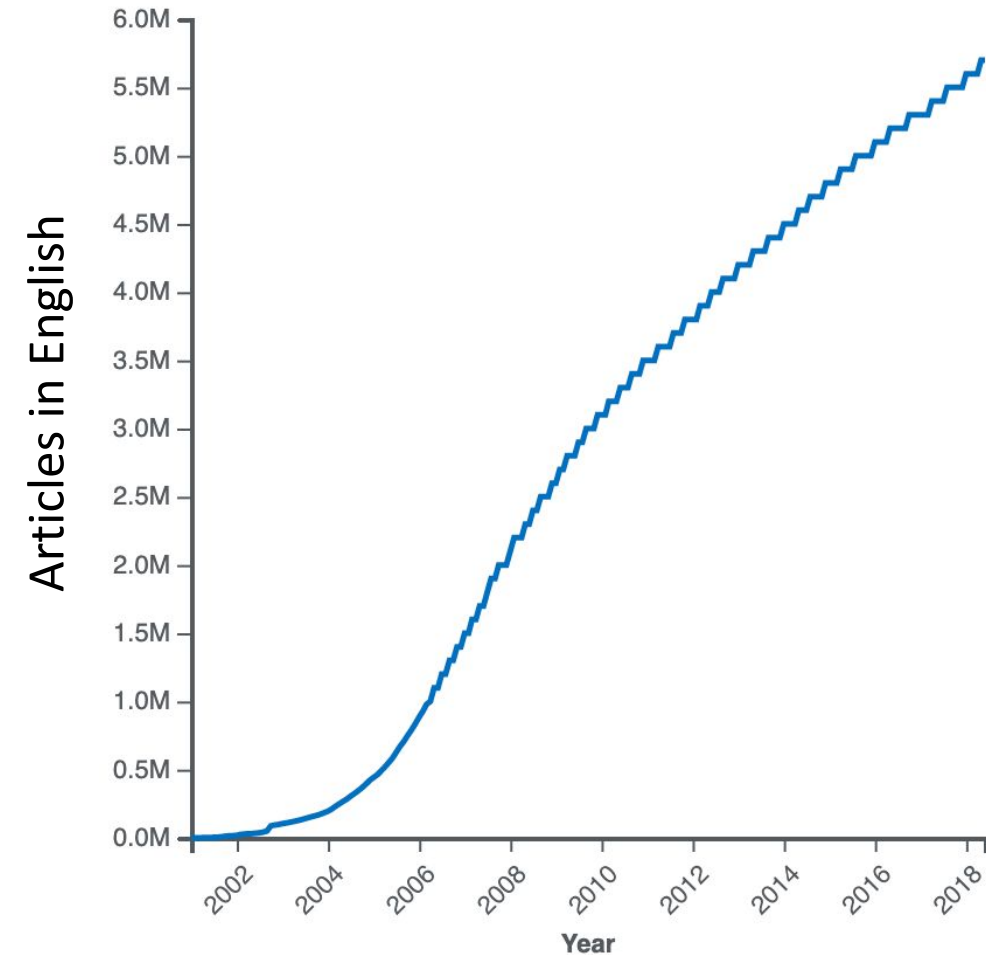
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The largest and most popular general reference work on the Internet

- Over 50 million articles<sup>1</sup>
- Over 300 languages<sup>2</sup>

15 billion views per month<sup>3</sup>

11<sup>th</sup> most visited website<sup>4</sup>





# Wikipedia matters

The general public trust it.<sup>5, 6</sup>

Used by doctors (50% - 70%)<sup>7</sup>, students (>95%)<sup>8</sup>, educators (>85%)<sup>9</sup> and lawmakers<sup>10</sup>.

Picture B



**Inconsistent quality and coverage<sup>11</sup>**



**Changes are reviewed, but not systematically**



**Clinicians/academics/researchers often want credit for their work**

More than a mention in the “history” tab



**A shortage of images**

Can not simply use any image on the internet due to copyright



**Cannot incorporate original research**

Academic limitation

# Wikipedia's limitations





**Maintenance costs,  
subscription costs,  
advertising**



**Most are paywalled  
to readers**



**Non-paywalled  
journals charge  
authors (article  
processing charge)**

... Some charge both  
authors and readers!



**Copyright of images**



**Limited readership  
(size and  
demographics)**



**Rigid, unchanging  
articles become  
outdated**

# Academic journals' limitations

# Similarities and differences

	Academic Journal	Wikipedia
Readership size	Small and brief Median article - 800 total Top 5% article - 3000 total	Very large and extended Median article - 10,000 per year Top 5% article - 1,000,000 per year
Readership composition	Other academics, often within narrow field	General public as well as experts and professionals
Peer review	Pre-publication, private review by 2-4 subject specialists	Post-publication public review of a sort by subject generalists 'Good article' - 1 reviewer 'Featured Article' - 5-12 reviewers
Reputation	Varies by journal but generally extremely high	Public generally trust Academics have mixed opinions but improving
Authorship	Small number with relevant, accredited expertise. Organised group with lead and corresponding authors.	Large number with mixed expertise levels. Loose organisation. Many pseudonymous or anonymous.
Timeliness	Static Updated by new publications	Constantly updated Only one consensus version






# WikiJournal User Group

Wikipedia-integrated • Public peer review • Libre open access

[Ethics statement](#)[Publishing](#)[Future](#)[About](#)[Journal](#) ▼[Resources](#) ▼

The WikiJournal User Group publishes a set of open-access, peer-reviewed academic journals with no publishing costs to authors. Its goal is to provide free, quality-assured knowledge. Secondly, it aims to bridge the Academia-Wikipedia gap by enabling expert contributions in the traditional academic publishing format to improve Wikipedia content.

## WikiJournal of Medicine

 Medicine and biomedicine (Flagship)

## WikiJournal of Humanities

 Humanities, arts and social sciences

## WikiJournal of Science

 Science, engineering, technology and mathematics

## WikiJournal Preprints

 Content under peer review or still being drafted

# How do WikiJournals complement Wikipedia?

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Published in a standard academic journal format

- Compliant with international journal guidelines (ICMJE, COPE, & BOAI)
- Indexed, dissemination in academic world
  - *G-scholar, DOAJ, CrossRef (DOI codes), ISSN, informit, ScienceOpen*
- Familiar format to researchers and health professionals
- Permanent, citable “version of record”

Externally peer reviewed (publicly accessible reviews)

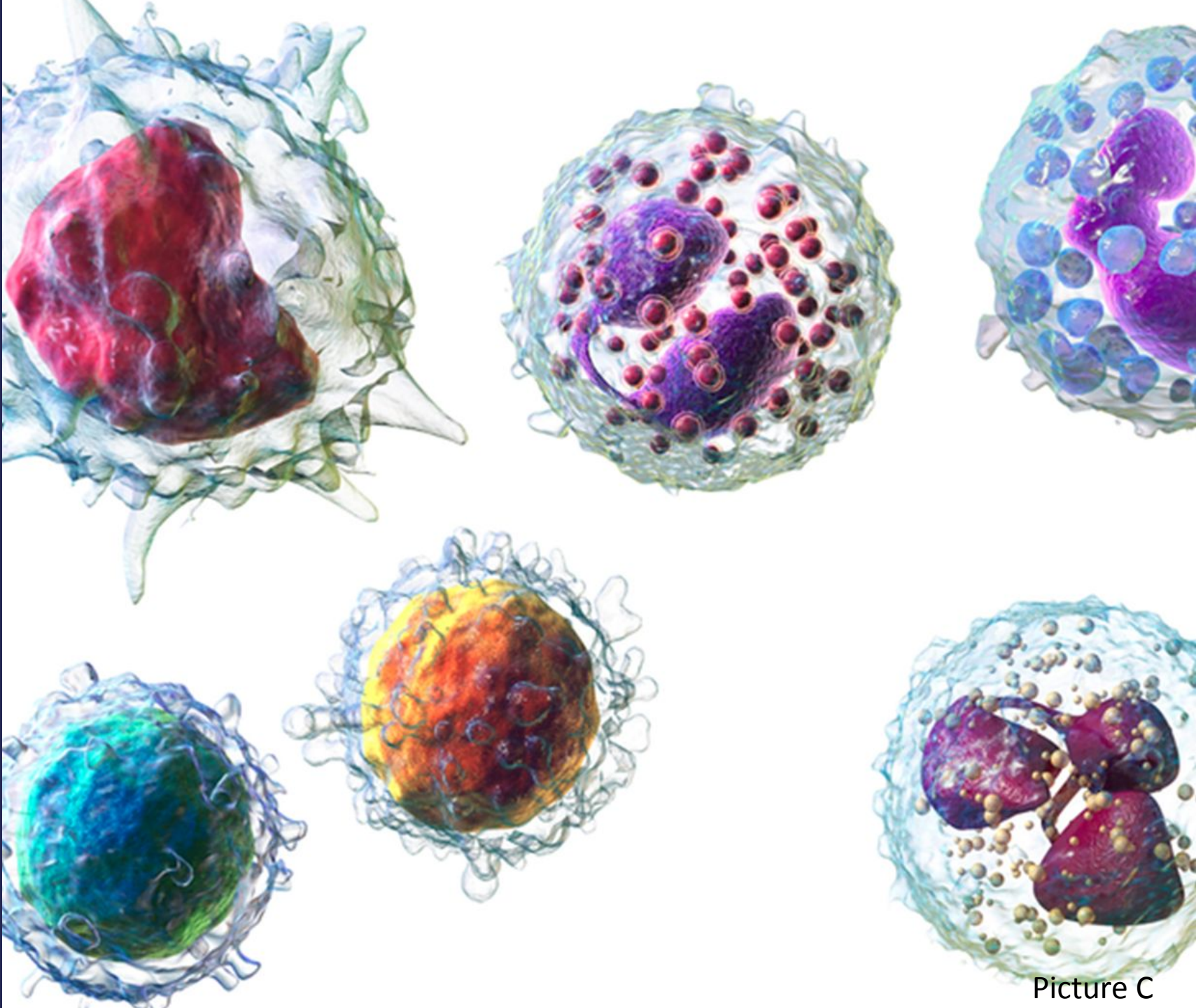
Authors are credited for their work

Ethics, guidelines and processes externally audited (member of COPE and ICJME)

Suitable material is incorporated into the encyclopaedia to be dynamic living version with maximum reach and impact



# WikiJournal concepts and features



Picture C

# Key features

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## Open Access

All published articles are openly accessible under a free Creative Commons license



## Free to publish

WJM is a fully non-profit journal run by volunteer editors so has no publication charges of any kind



## Public peer-review

All article peer reviews are published and publicly accessible



## Wikipedia-integrated

Appropriate material is integrated into Wikipedia for added reach and exposure

# Publication formats

## Research

### Original research

Generally including  
*Method, Results,*  
*Discussion.*

### Case studies

A patient case in the  
medical journal, or a  
significant event,  
decision, project, or  
policy.

## Review

### Focused

on a specific detail  
of a topic.

### Encyclopaedic

- Broad summaries covering an entire topic.
- Encyclopaedic tone.

They can be re-writes, expansions or improvements of existing important Wikipedia articles.

### Multimedia

These are short reviews centred around a key image or other multimedia.





# Insights into abdominal pregnancy

Gwinyai Masukume

## Editor's note

This article provided a great deal of valuable evidence that was not mentioned in the Wikipedia article on abdominal pregnancy, and the Wikipedia article has subsequently been expanded with text from this publication. However, because of this purpose, it has never been the aim of this article in itself to be a complete review of the subject, and many aspects of abdominal pregnancy are not included herein.

This article also provides an example of how to contribute to Wikimedia projects such as Wikipedia by means of academic publishing.

## Introduction

While rare, abdominal pregnancies have a higher chance of maternal mortality, perinatal mortality and morbidity compared to normal and ectopic pregnancies, but on occasion a healthy viable infant can be delivered.<sup>[1]</sup>

Because tubal, ovarian and broad ligament pregnancies are as difficult to diagnose and treat as abdominal pregnancies, their exclusion from the most common definition of abdominal pregnancy has been debated.<sup>[2]</sup>

Others - in the minority - are of the view that abdominal pregnancy should be defined by a placenta implanted into the peritoneum.<sup>[3]</sup>

## Symptoms and signs

Abdominal pregnancy does not have any specific symptoms and signs so much so that in about half of instances it is missed, only being discovered during surgery; because of the "vague" yet serious nature of the symptoms, signs and results of medical tests patients with abdominal pregnancy will generally have surgery at some point.<sup>[4][5][6]</sup>

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Received 13-11-2014; accepted 20-11-2014

## Risk factors

Risk factors are similar to tubal pregnancy with sexually transmitted disease playing a major role.<sup>[7]</sup> However, about half of those with ectopic pregnancy have no known risk factors - known risk factors include damage to the Fallopian tubes from previous surgery or from previous ectopic pregnancy and tobacco smoking.<sup>[8]</sup>

## Mechanism

Typically an abdominal pregnancy is a secondary implantation which means that it originated from a tubal (less common an ovarian) pregnancy and re-implanted.<sup>[9]</sup> Other mechanisms for secondary abdominal pregnancy include uterine rupture, rupture of a uterine rudimentary horn and fimbrial abortion.<sup>[10]</sup>

## Diagnosis

Suspicion of an abdominal pregnancy is raised when the baby's parts can be easily felt, or the lie is abnormal, the cervix is displaced, or there is failed induction of labor.<sup>[4]</sup> X-rays can be used to aid diagnosis.<sup>[9]</sup>

To diagnose the rare primary abdominal pregnancy, Studdiford's 1942 criteria need to be fulfilled: tubes and ovaries should be normal, there is no abnormal connection (fistula) between the uterus and the abdominal cavity, and the pregnancy is related solely to the peritoneal surface without signs that there was a tubal pregnancy first.<sup>[10]</sup> Studdiford's criteria were refined in 1968



Suspicion of an abdominal pregnancy is raised when the baby's parts can be easily felt, or the **lie** is abnormal. **Obstetrical ultrasonography|Sonography** is extremely helpful in the diagnosis as it can demonstrate that the pregnancy is outside an empty uterus, there is no **amniotic fluid** between the placenta and the fetus, no uterine wall surrounding the fetus, fetal parts are close to the abdominal wall, and the fetus is in abnormal lie. **MRI** has also been used with success to diagnose abdominal pregnancy. **Elevated alpha-fetoprotein** levels are another clue of the presence of an abdominal pregnancy. **Medical uses|X-rays** can be used to aid diagnosis. **Sonography** can demonstrate that the pregnancy is outside an empty uterus, there is reduced to no **amniotic fluid** between the placenta and the fetus, no uterine wall surrounding the fetus, fetal parts are close to the abdominal wall, the fetus has an abnormal lie, the placenta looks abnormal and there is **Ascites|free fluid in the abdomen**. **MRI** has also been used with success to diagnose abdominal pregnancy and plan for surgery. **The value of magnetic resonance imaging in the diagnosis and management of extra-uterine abdominal pregnancy** **Clin Radiol** **16488208** | year=2006 | volume=61 | issue=3 | pages=264-9 | doi=10.1111/j.1471-0528.1984.tb04773.x

Before

Suspicion of an abdominal pregnancy is raised when the baby's parts can be easily felt, or the **lie** is abnormal, the **cervix** is displaced, or there is failed **induction of labor**. **Medical uses|X-rays** can be used to aid diagnosis. **Sonography** can demonstrate that the pregnancy is outside an empty uterus, there is reduced to no **amniotic fluid** between the placenta and the fetus, no uterine wall surrounding the fetus, fetal parts are close to the abdominal wall, the fetus has an abnormal lie, the placenta looks abnormal and there is **Ascites|free fluid in the abdomen**. **MRI** has also been used with success to diagnose abdominal pregnancy and plan for surgery. **The value of magnetic resonance imaging in the diagnosis and management of extra-uterine abdominal pregnancy** **Clin Radiol** **16488208** | year=2006 | volume=61 | issue=3 | pages=264-9 | doi=10.1111/j.1471-0528.1984.tb04773.x

After

Text used to expand Wikipedia articles





# Images of *Aerococcus urinae*

Mikael Häggström<sup>1,2,3</sup> and Jonatan Mattila<sup>4,5</sup>

## Abstract

This is a description of an infection in 73 year old man with multiple comorbidities, with images of *Aerococcus urinae* from resultant blood cultures, showing their alpha hemolytic and Gram-positive properties.

**Plain language summary:** *Aerococcus urinae* is a type of bacteria that can lead to infections in the urinary system. This work describes a 73 year old man who had an infection with *Aerococcus urinae*. Samples of blood and urine were taken from the patient, and when put on blood cells the bacteria weakly changed the color of the blood cells around them. This result is called alpha hemolysis, and can be seen in *Image 1*. Adding Gram stain to the bacteria turned them violet, and therefore the bacteria were Gram-positive. This can be seen in microscopy in *Image 2*. The patient was treated with antibiotics.

## *Aerococcus urinae*

*Aerococcus urinae* is a relatively new species of bacteria in clinical and microbiological practice, first reported in 1989 and designated as a separate species in 1992.<sup>[1]</sup> It can cause urinary tract infections, bacteremia / septicemia and/or endocarditis.<sup>[1]</sup> As a urinary tract pathogen, it causes infections predominantly in elderly persons with local or general predisposing conditions.<sup>[1]</sup> *Aerococcus urinae* has been estimated to cause approximately 0.31 - 0.44% of urinary tract infections.<sup>[1]</sup>

## Patient case

A 73 year old man presented to the emergency department with two days of fatigue, fever and chills. He had a previous history of left arterial cerebral media infarction with expressive aphasia, right side hemiparesis and post-stroke seizures. He suffered from hypertension, atrial fibrillation and aortic stenosis with normal systolic left ventricular function as well as urinary incontinence and prostatic hyperplasia.

In the emergency department he was afebrile and the blood-samples showed a C-reactive protein level of 19

mg/l (normally less than 5<sup>[6]</sup> or 6<sup>[5]</sup>) and a leukocyte count of 13.7<sup>x10<sup>9</sup>/l</sup> (normally less than 9.0<sup>[6]</sup> or 10.0<sup>[7]</sup>). The patient was admitted to the hospital for observation, and after one day on the ward he developed chills and was subfebrile with a tympanic body temperature of 37.6°C (normally up to 37.5°C).<sup>[8]</sup> Blood and urine samples were taken for culture. Microscopy of the blood samples showed gram-positive cocci. The patient received intravenous cefotaxime. After three days all blood samples and urine samples showed growth of gram-positive catalase-negative cocci *Aerococcus urinae* (Figures 1 and 2).

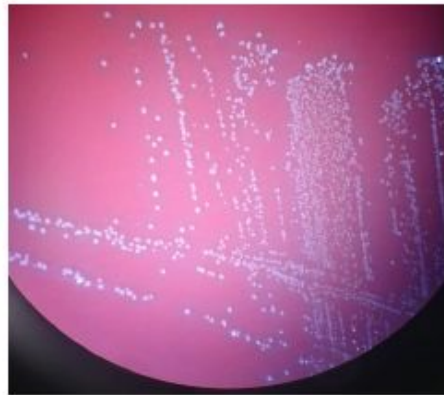


Figure 1 | Blood agar with alpha hemolytic colonies following culture from the patient's blood samples.

Sundsvall Regional Hospital  
Image credits and author of introduction  
ORCID: 0000-0002-2732-7631  
Author Correspondence: online form  
Author of patient case  
Author Correspondence: online form  
Licensed under: CC-BY-SA 3.0  
Received 01-03-2015; accepted 09-03-2015



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The Free Encyclopedia

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## *Aerococcus urinae*

From Wikipedia, the free encyclopedia

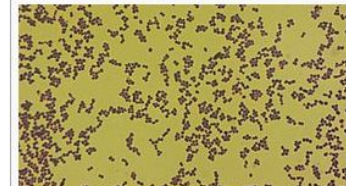
***Aerococcus urinae*** is a member of the bacterial genus *Aerococcus*. The bacterium is a Gram-positive, catalase-negative coccus growing in clusters. Isolates of this species were originally isolated from the urine of patients with urinary tract infections and were denoted *Aerococcus*-like organisms.<sup>[1]</sup> In 1992, *A. urinae* was assigned as distinct species.<sup>[2]</sup> Due to difficulties in the biochemical identification of *A. urinae* in clinical microbiological laboratories, the incidence of infections with this bacterium has likely been underestimated and secure identification relies on genetical or mass spectroscopic methods.<sup>[3]</sup> *A. urinae* may also cause invasive infections including urosepsis and infective endocarditis, especially in elderly men with underlying urinary tract diseases.<sup>[4][5]</sup> *A. urinae* is sensitive to many commonly used antibiotics such as penicillin, cephalosporins, and vancomycin. However, the bacterium is often resistant to many antibiotics used in urinary tract infections such as sulphamethoxazole, trimethoprim and ciprofloxacin.<sup>[6]</sup> The bacterium can form biofilms on foreign materials and can aggregate human platelets, two features of potential importance for the disease causing capacity of this organism.<sup>[7]</sup> *A. urinae* is the most common aerococcus isolated from invasive human infections whereas *Aerococcus sanguinicola* is isolated from human urine as often as *A. urinae*.<sup>[8]</sup>

## References [edit]

- <sup>1</sup> Christensen, JJ; Vibits, H; Ursing, J; Kerner, B (May 1991). "Aerococcus-like organism, a newly recognized potential urinary tract pathogen." *Journal of Clinical Microbiology* 29 (5): 1049–53. PMC 269932. PMID 2056040.
- <sup>2</sup> Aguirre, M.; Collins, M. D. (1 February 1992). "Phylogenetic analysis of some Aerococcus-like organisms from urinary tract infections: description of Aerococcus urinae sp. nov.". *Journal of General Microbiology* 138 (2): 401–405. doi:10.1099/00221287-138-2-401.
- <sup>3</sup> Rasmussen, M (December 2012). "Aerococci and aerococcal infections.". *Journal of Infection* 66 (6): 467–74. doi:10.1016/j.jinf.2012.12.006. PMID 23277106.
- <sup>4</sup> Ebnöther, C; Altwegg, M; Gottschalk, J; Seebach, JD; Kronenberg, A (Oct 2002). "Aerococcus urinae endocarditis: case report and review of the literature.". *Infection* 30 (5): 310–3. doi:10.1007/s15010-002-3106-x. PMID 12382093.
- <sup>5</sup> Senneby, E; Petersson, A-C; Rasmussen, M (June 2012). "Clinical and microbiological features of bacteremia with Aerococcus urinae.". *Clinical Microbiology and Infection* 18 (6): 546–50. doi:10.1111/j.1469-0691.2011.03609.x.
- <sup>6</sup> Rasmussen, M (June 2013). "Aerococci and aerococcal infections.". *Journal of Infection* 66



*Aerococcus urinae* on blood agar, showing alpha hemolytic colonies.



Microscopy of *Aerococcus urinae* with gram stain, showing gram positive cocci.

Scientific classification	
Kingdom:	Bacteria
Phylum:	Firmicutes
Class:	Bacilli
Order:	Lactobacillales
Family:	Aerococcaceae
Genus:	<i>Aerococcus</i>

Images are stored in Wikimedia Commons, and can be used across sister projects.



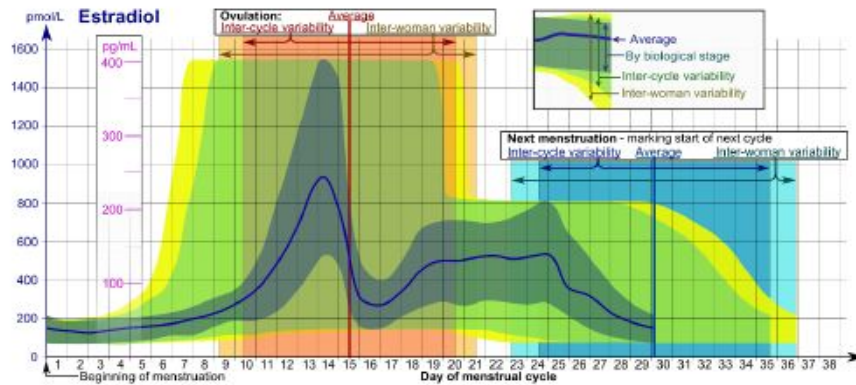


Figure 2 | Estradiol during menstrual cycle

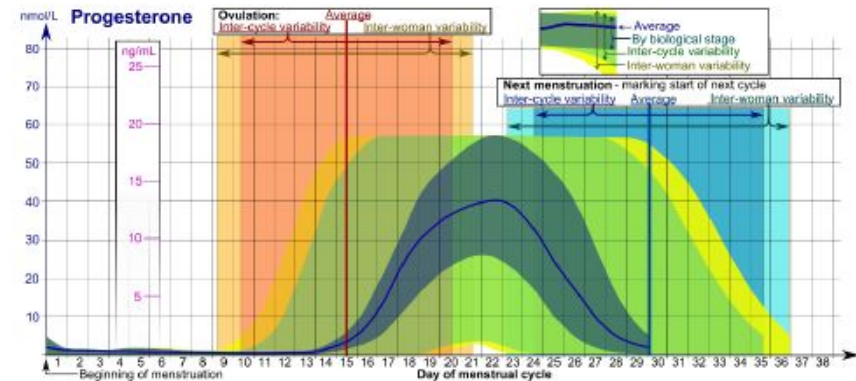


Figure 2 | Progesterone during the menstrual cycle

the up to 95% prediction intervals for any single woman, assuming an inter-cycle average duration that is equal to population average. These ranges are more appropriate to use in non-monitored cycles with only the beginning of menstruation known, but where the woman accurately knowing her average cycle lengths and time of ovulation, and that they are somewhat averagely regular, with the time scale being compressed or stretched to how much a woman's average cycle length is shorter or longer, respectively, than the average of the population.

- The ranges denoted Inter-woman variability are the up to 95% prediction intervals for hormone levels in

the overall population. These ranges are more appropriate in non-monitored cycles, where the average cycle lengths and time of ovulation are unknown, but only the beginning of menstruation is given.

### Derivation

#### Average hormone values

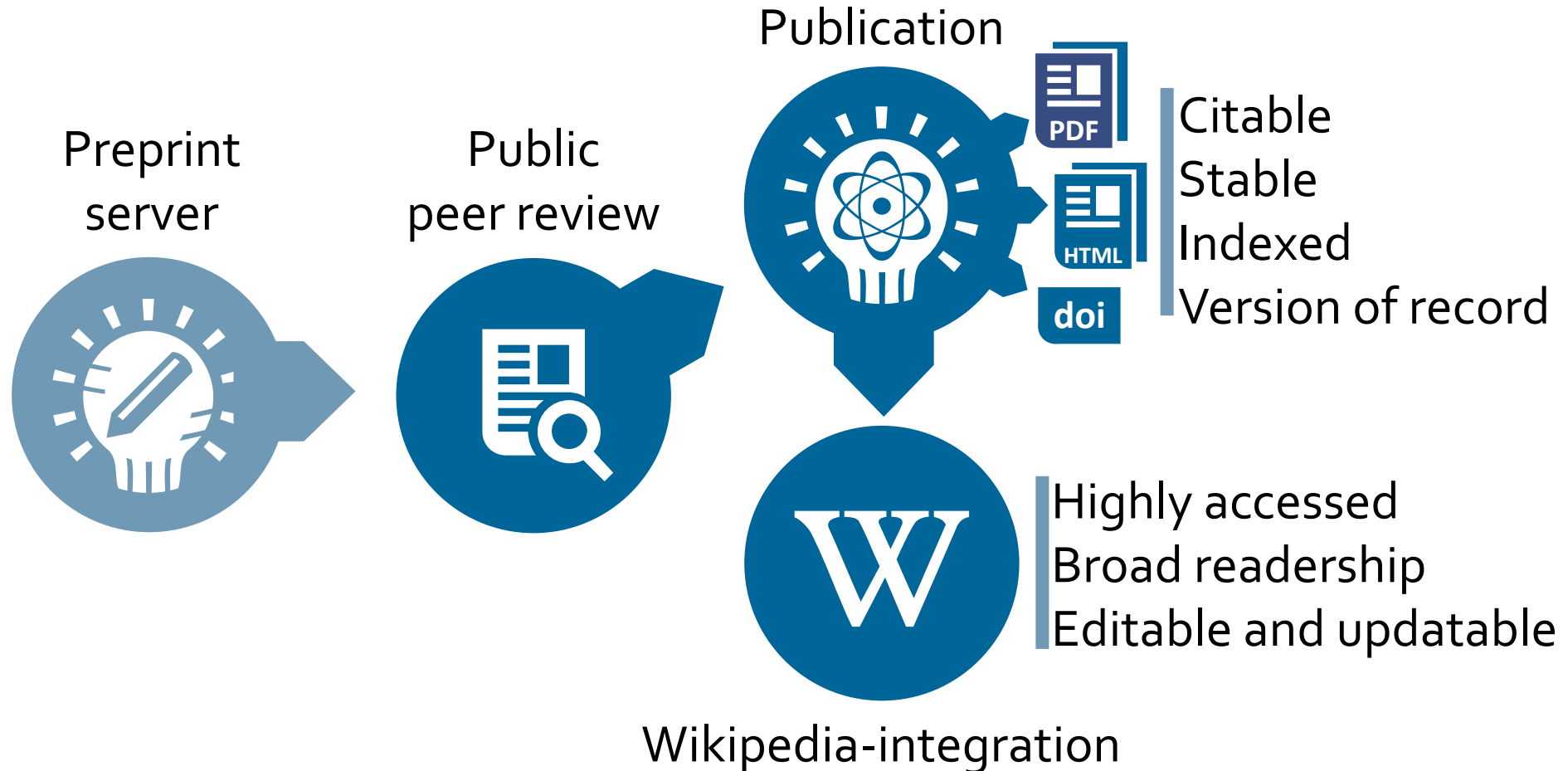
The average hormone levels are taken from Stricker 2006,<sup>[4]</sup> with some regression to a smoother curve between values of a rather zigzag pattern. The confidence intervals for the average values are not given in this

Images from this one paper appear in articles with a total of 255,000 readers per month.

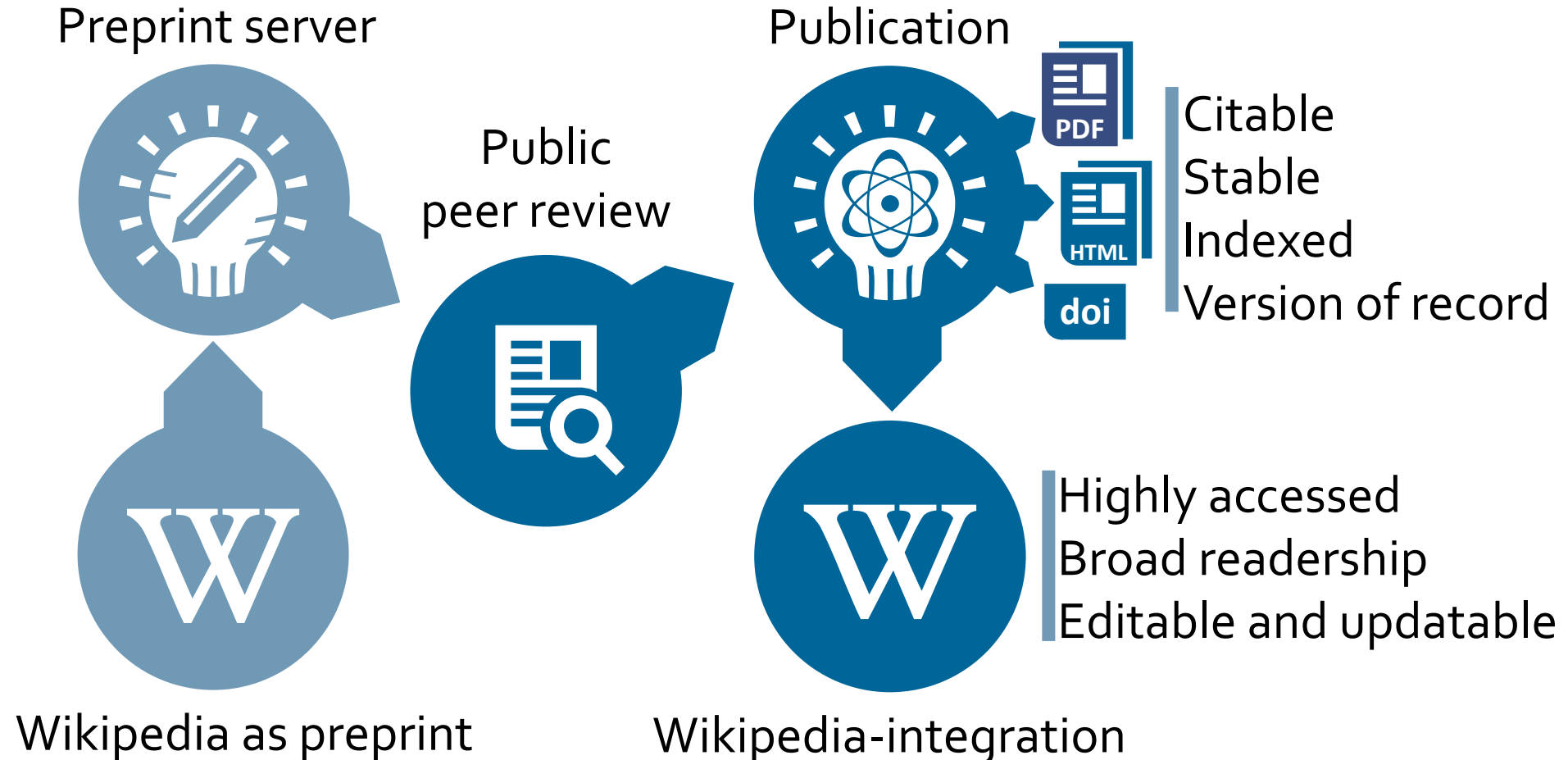
Wikipedia articles where media are used	View count (Feb 2015)
Estrogen	53793
Estradiol	27055
Menstrual cycle	53209
Ovulation	15584
Reference ranges for blood tests	23898
Progesteron	34680
Follicle-stimulating hormone	22883
Luteinising hormone	23706

# Publishing flow (Journal first)

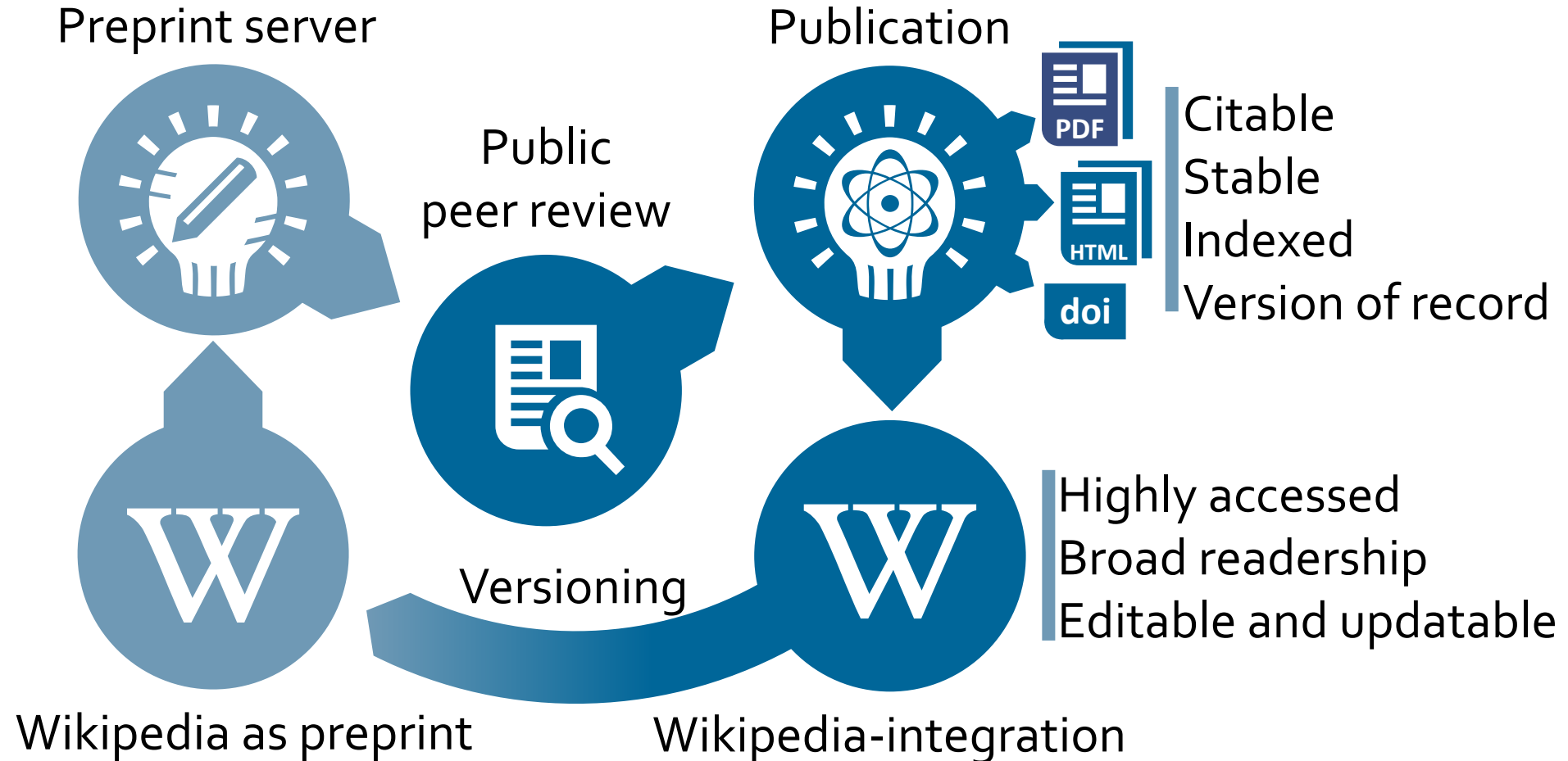
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# Publishing flow (Wikipedia first)



# Publishing flow (Versioning)



# Beyond Wikipedia

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## Teaching resource used in Wikiversity

- Acute gastrointestinal bleeding from a chronic cause: a teaching case report

## Image gallery in Commons and used throughout Wikimedia sister projects

- Medical Gallery of Blausen Medical

## Stand-alone research article

- Vitamin D as an adjunct for acute community-acquired pneumonia among infants and children: systematic review and meta-analysis

## Possibly also

- Wikibooks
- Wikidata



# Who can submit articles?

## **Anyone can submit**

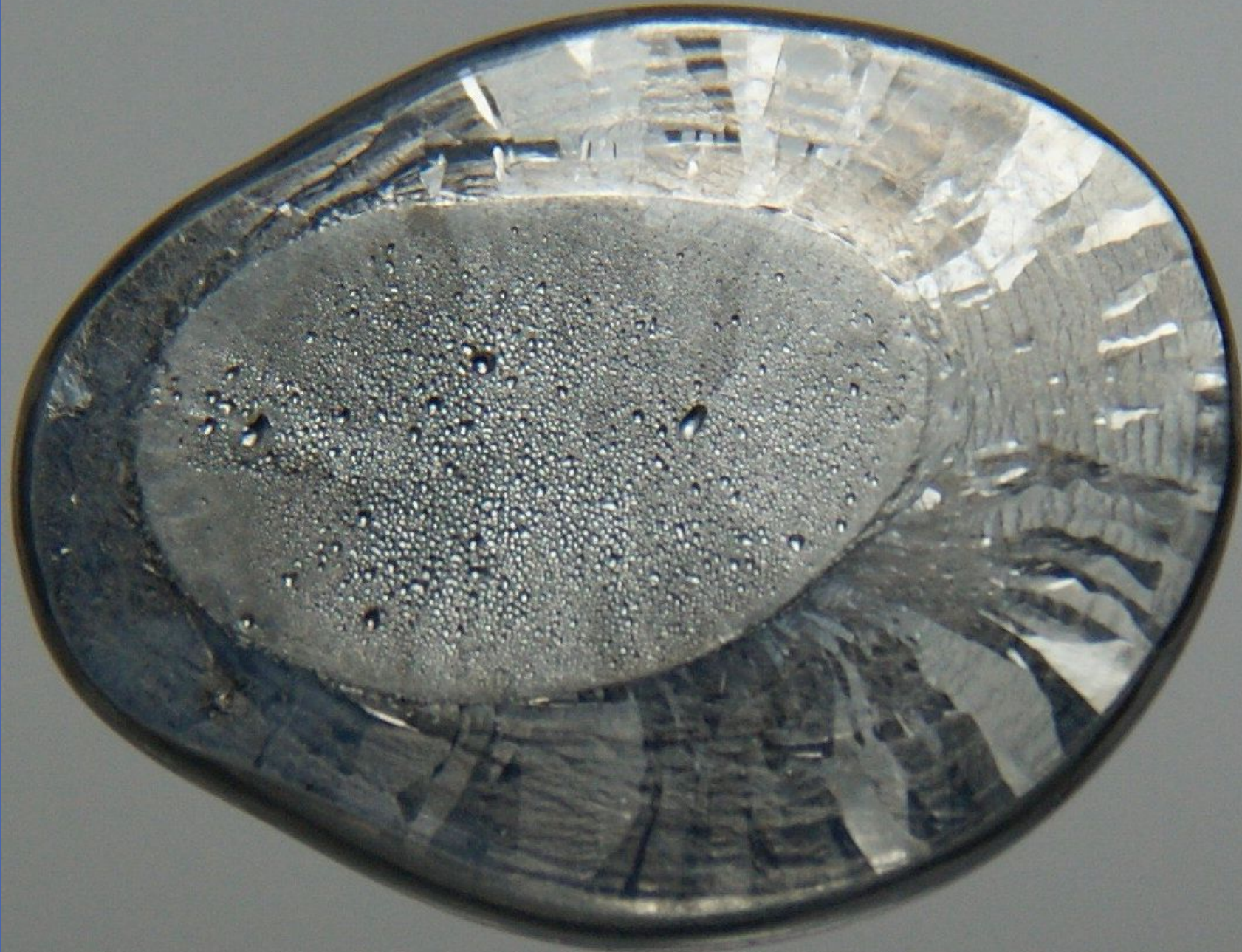
All authors treated equally  
The *content* counts

## **Ideal for research and academics aiming to**

Achieve maximum outreach, exposure, and impact

Be credit for expert input to open access projects

Contribute to the world's most read encyclopaedia



# Who can peer review articles?

## **Anyone can give review**

Pre- or post-publication

## **External experts invited to review (*at least 2* required)**

Have expertise in the topic at hand, and be willing to provide relevant credentials if requested.

Be willing to disclose any potential conflicts of interests

Not be editorial board members of the journal

Anonymity optional



Picture E



# High impact

- 66,000 journal article views during 2018.<sup>12</sup>
- **4.2 million views** (2018) of all material integrated into Wikipedia.<sup>13</sup>
- 11 publications so far in 2019.

# Participants

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WikiJournal of Science: 27 board members and 3 associate editors

WikiJournal of Medicine: 12 board members and 1 associate editor

WikiJournal of Humanities: 17 board members

Authors, peer reviewers



Picture F



# Wikimedia journal hosting platform

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## Features

Site identity and branding

[journals.wikimedia.org](https://journals.wikimedia.org) / [wikijournals.org](https://wikijournals.org) / [journals.wiki](https://journals.wiki) / [j.wiki](https://j.wiki)

Specialised sidebar items and logos

CC BY default license (compatible with most scientific journals)

Automation of repetitive tasks

Copying accepted articles into latest volume & issue

Formatting PDFs

Specialised extensions

Automated email reminders to reviewers

Wikidata integration to track peer reviews (currently written in talkpages)



# Contribute

- **Publish** an article. Credentials are not necessary.
- **Peer reviewing** of article submissions. Does require expertise in the subject at hand.
- Help **preparing** submitted articles
- Join an **editorial board** and share your ideas about journal management
- Will hire a **technical editor**.

# Individual WikiJournals

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## WikiJournal of Science

[www.WikiJSci.org](http://www.WikiJSci.org)

 [Contact@WikiJSci.org](mailto:Contact@WikiJSci.org)

 [WikiJSci](#)

 [WikiJSci](#)

## WikiJournal of Medicine

[www.WikiJMed.org](http://www.WikiJMed.org)

 [Contact@WikiJMed.org](mailto:Contact@WikiJMed.org)

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## WikiJournal of Humanities

[www.WikiJHum.org](http://www.WikiJHum.org)

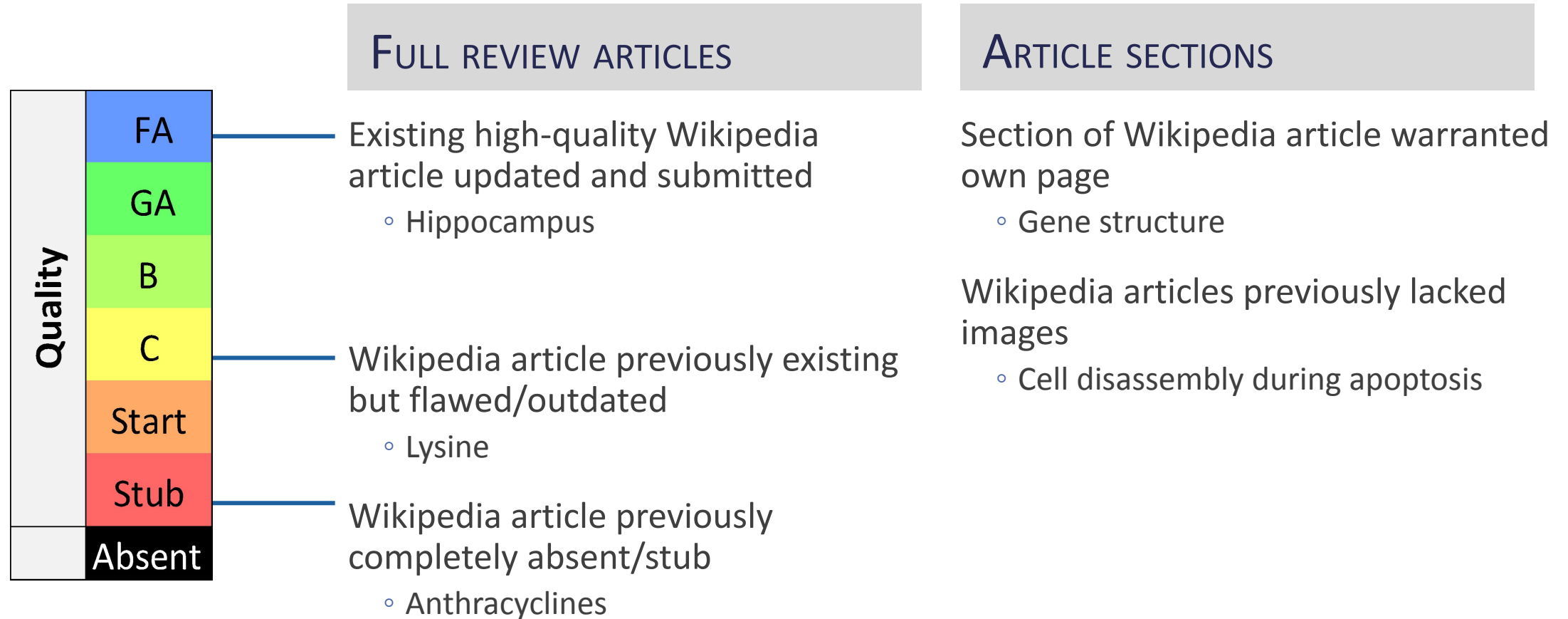
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# Case studies – improving Wikipedia

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# Possible partnership systems

Article co-published in both a specialist “conventional” journal and in a WikiJournal.

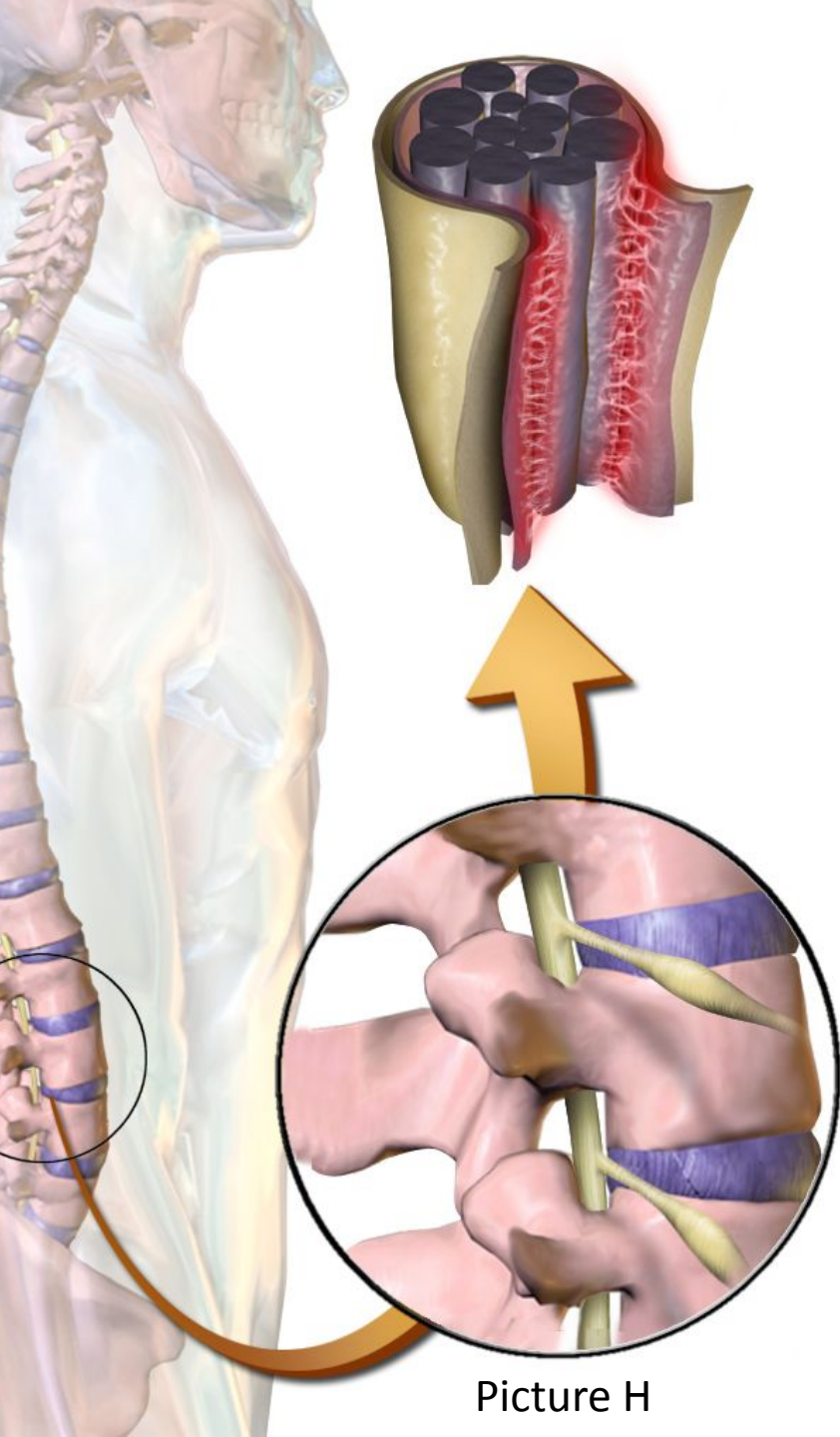
- Specialist journal: Invite authors, identify peer reviewers
- WikiJournal: Advise on Wikipedia policy compliance, readability, style and formatting

Co-publishing in two journals is frequent. Example:

Staniszewska, S., et al. (2017). GRIPP2 reporting checklists: tools to improve reporting of patient and public involvement in research. *Research involvement and engagement*, 3(1), 13

Staniszewska, S., et al. (2017). GRIPP2 reporting checklists: tools to improve reporting of patient and public involvement in research. *British Medical Journal* 358(1), j3453

Appropriate content then copied into Wikipedia per ‘journal-first’ model



Picture H

# References and notes

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12. [Category:Articles that have passed peer review](#), Wikimedia Toolforge.
13. [WikiJMed](#), [WikiJSci](#), [WikiJHum](#) statistics at Wikimedia Toolforge for 2018.

# Images

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