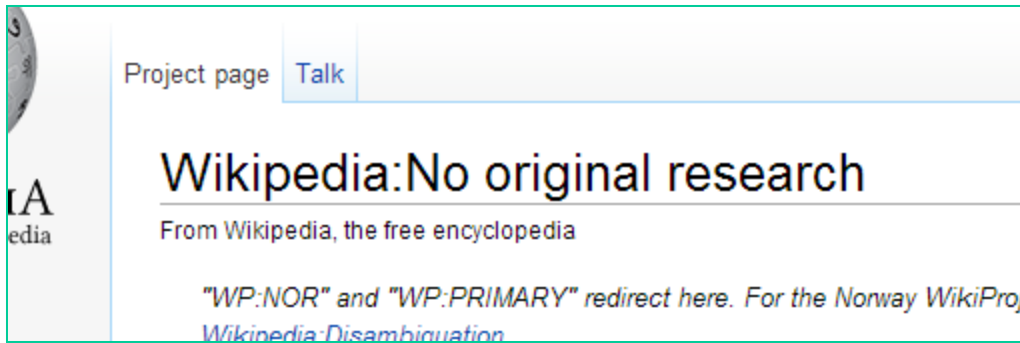


Peer reviewed content from Wikiversity

Mikael Haggstrom



- **Wikipedia:No original research**
“Wikipedia does not publish original thought: all material in Wikipedia must be attributable to a reliable, published source.”
- “In general, the most reliable sources are:
 - **peer-reviewed** journals
 - ...

- **Wikipedia: Verifiability**

“If available, academic and **peer-reviewed** publications are usually the most reliable sources...”

- **Wikipedia: Identifying reliable sources**

“When available, academic and **peer-reviewed** publications, ... are usually the most reliable sources.”

But can a sister project be such a peer reviewed publication?



Commons

Free media repository



Wikibooks

Free textbooks and manuals



Wikiquote

Collection of quotations



Wikiversity

Free learning materials and activities



MediaWiki

Wiki software development



Wikidata

Free knowledge base



Wikisource

Free-content library



Wikivoyage

Free travel guide



Meta-Wiki

Wikimedia project coordination



Wikinews

Free-content news



Wikispecies

Directory of species



Wiktionary

Dictionary and thesaurus

We'll take a look at Wikiversity

Wikiversity:Original research

is the corresponding policy page in Wikiversity, and states that “Original research is permitted on Wikiversity”

So

- It can be seen as a form of publication...
- But can it be peer reviewed?

Peer review in Wikiversity

- I've recently been developing a system for external peer review in Wikiversity. The process goes like follows:
 1. The research of interest is performed
 2. The scientific text is added to a Wikiversity

- As an example of this, I'll show the first study to go through this project was a pilot study named "Average weight of a conventional teaspoon made of metal", which basically measured the weight of 19 teaspoons.

Average weight of a conventional teaspoon made of metal

Revision as of 08:46, 9 November 2012 by Mikael Häggström (discuss | contribs)
 (diff) — Older revision | Latest revision (diff) | Newer revision — (diff)

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- 1 Abstract
- 2 Objective
- 3 Method
- 4 Results
- 5 Discussion
- 6 Conclusion
- 7 Conflict of interest

Abstract

To estimate the average weight of a conventional teaspoon made of metal, 19 teaspoons were weighted, and the results were used to estimate an average weight of approximately 25 grams (confidence interval: 22 to 28 grams).

Objective

To estimate the average weight of a conventional teaspoon made of metal.

Method

19 teaspoons were gathered. The inclusion criterion was to be considered to be a conventional teaspoon made of metal by both the provider and author of the study. Teaspoons with handles partially made of plastic were also accepted. Each teaspoon was weighted with a digital scale of the model "AWS-100 Digital Pocket Scale". Specifics of individual teaspoons are given in table in the "results" section.

Results

No.	Image	Engraved description	Source	Weight (grams)
1		(none)	Walmart (high price class)	45.6 g
2		Amefa Stainless Steel	Amazon.com	15.0 g
3		COOKS CLUB CHINA	household in Grand Rapids	26.9 g
4		Royal Norfolk 18/0 Stainless China	Family Dollar	26.5 g
5		Springtime STAINLESS JAPAN	household in Grand Rapids	39.4 g

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Next step

3. One or more peer reviewers are asked to perform a peer review of the work.

Requirements

The peer reviewer should:

- have public contact information
- have the expertise in the subject to be able to analyze the work for quality assurance.
 - Teacher for simple study
 - Professor for more complex one
- not have conflicts of interests that could affect the judgment of the work.

Peer review statement

Should contain:

- A link to the page in Wikiversity
- A disclosure of conflicts of interests
- A statement of how well the peer reviewer considers the method and interpretation of the results to properly support the conclusion of the study.

Peer review certification

We have performed a peer review of the study titled "Average weight of a conventional teaspoon made of metal", authored by Mikael Häggström, that was carried out in Uppsala, Sweden in 2012, and on display online at

https://en.wikisource.org/wiki/Average_weight_of_a_conventional_teaspoon_made_of_metal

, as of September 11, 2012

We certify that:

- Example:

- We have no relation to the author that would constitute any potential conflict of interest in issuing this certification.
- We find no reason to believe that the author has any conflict of interest in relation to this subject to the degree of significantly affecting the validity of the study.
- The method and interpretation of the results properly support the conclusion that conventional teaspoons made of metal weight, on average, approximately 25 grams, with a confidence interval of 22 to 28 grams.

We have also controlled the accurate weighting of the teaspoons by choosing three random teaspoons from the study and asking the author to present these to us, so that we could perform our own weight measurements on these items, and our results acceptably corresponded to those given in the study.



Teacher of
math and science
J.B.-Gymnasiet Uppsala

September 11, 2012



Teacher of
math and science
J.B.-Gymnasiet Uppsala

September 11, 2012

One more step if necessary:

Peer review verification

A request is sent to a member of the Volunteer Response Team to verify the peer review statement by at least contacting the peer reviewer to ascertain that they approve the peer review statement as appearing online.

The image shows a screenshot of a Wikipedia article page. At the top, there is a navigation bar with buttons for 'Resource', 'Discuss', 'Read', 'Edit', and 'View history', along with a search box and a star icon. The article title is 'Average weight of a conventional teaspoon made of metal'. Below the title, there is a box with an orange 'OTRS' icon and text stating: 'This article has been peer reviewed, and a certification of the peer review (found [here](#)) has had its authenticity **verified** by the Volunteer Response Team as archived in the Wikimedia OTRS system at *tickets #2012102310012296 and #2012102310012312* (accessible to users with an OTRS account)'. Below this box, the author is listed as 'Mikael Häggström'. At the bottom, there is a 'Contents' link with a '[hide]' option.

Resource Discuss Read Edit View history Search

Average weight of a conventional teaspoon made of metal

OTRS This article has been peer reviewed, and a certification of the peer review (found [here](#)) has had its authenticity **verified** by the Volunteer Response Team as archived in the Wikimedia OTRS system at *tickets #2012102310012296 and #2012102310012312* (accessible to users with an OTRS account).

Author: Mikael Häggström

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Result: A peer reviewed publication

- This is how it looks like in Wikipedia:



cup of tea or coffee.

A high school project estimated the average weight of a conventional teaspoon made of metal to be approximately 25 grams.^[1] Teaspoons with longer handles, such as [iced tea spoons](#), are commonly used

- [Tablespoon](#)

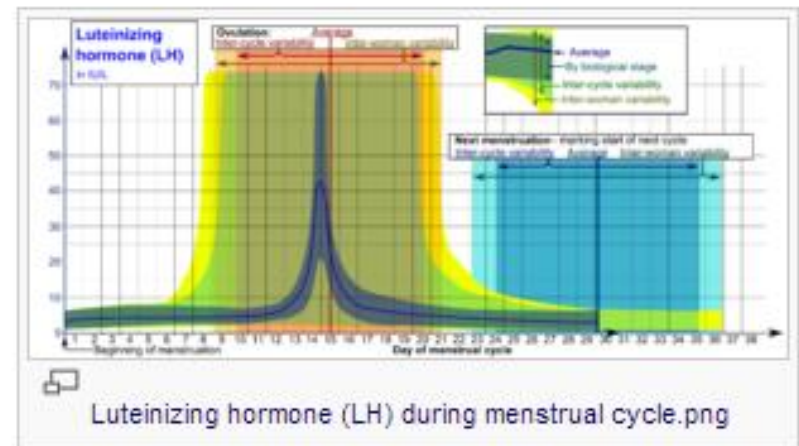
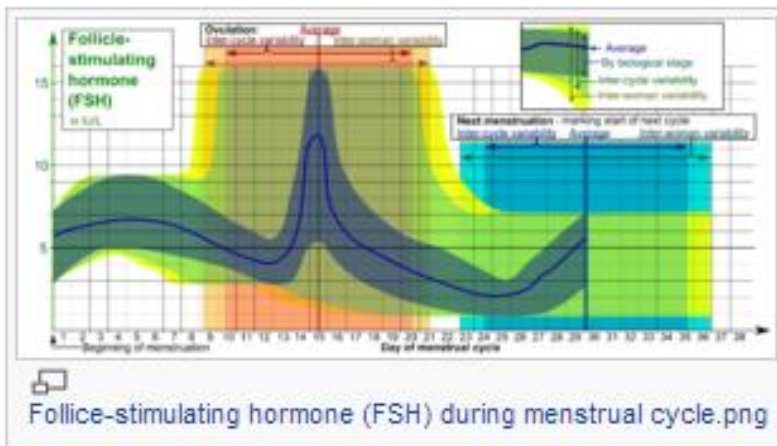
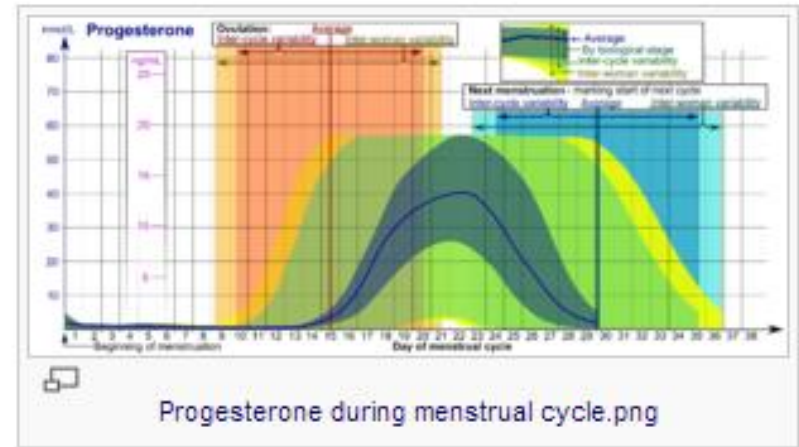
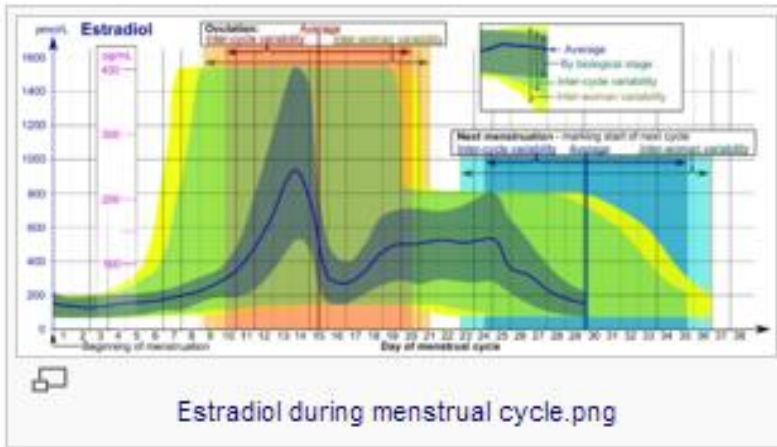
References [edit]

1. [^] *Average weight of a conventional teaspoon made of metal*. Wikiversity, peer review verified 2012.
2. [^] "tea spoon, n." *OED Online*. Oxford University Press. 27 June 2012.

Inclusion in Wikipedia

- is still decided by the Wikipedia community, regardless of inclusion in Wikiversity.

- Now to another study that has gone through the process of peer review in Wikiversity:



- Across 8 Wikipedia articles related to hormones and the menstrual cycle
- Since 2011...

There was a significant amount of original research (or original synthesis of existing research) when creating the diagrams.

- Research text moved from image descriptions to Wikiversity
- Peer reviewed by Enago, offering peer review by PhD graduates for a fee

Advantages over publishing in traditional academic journals

- There is not a journal for every subject (like teaspoons)
- Less hassle (lots of time for reference formatting, spelling errors in traditional journals.)
- Transparency (usually no public peer review statement in traditional journals)
- Target is Wikipedia – generally thousands of article views per month, compared to probably ending up in archives.

You can contribute with research!

- Find something to study
- Perform the study
- Write an article in Wikiversity
- Have it peer reviewed
- Make a short entry in Wikipedia

With proper quality assurance measures, it will certainly be for the better for the project.

Questions?

- Process is described at [Wikiversity:Wikiversity:Peer review](#)
- You can contact me at [User talk:Mikael Häggström](#)