

2016

# Final Analysis of Use

Roy Meyers  
Skidmore College

Follow this and additional works at: [https://creativematter.skidmore.edu/bio\\_fac\\_webhuman](https://creativematter.skidmore.edu/bio_fac_webhuman)



Part of the [Biology Commons](#)

---

## Recommended Citation

Meyers, Roy, "Final Analysis of Use" (2016). *Web-HUMAN Systems Physiology Simulation*. 6.  
[https://creativematter.skidmore.edu/bio\\_fac\\_webhuman/6](https://creativematter.skidmore.edu/bio_fac_webhuman/6)

This Article is brought to you for free and open access by the Biology at Creative Matter. It has been accepted for inclusion in Web-HUMAN Systems Physiology Simulation by an authorized administrator of Creative Matter. For more information, please contact [jluo@skidmore.edu](mailto:jluo@skidmore.edu).

## An analysis of the use of various feature of the new HUMAN version 9

(Tip- If you abhor stats & the way they were derived, skip to the Overall Conclusions/ summary / observations section at the end)

This section assumes familiarity with the list of new features introduced as HUMAN 9 was progressively rolled out. From the previous section, these included the following features (and more). As a reminder these were

List of Major New Features Introduced in web-HUMAN 9

These include but are not limited to

- 1) Single click experiments (approx. June, 2011)
- 2) Greatly increased ability/functionality for users to save and retrieve web-HUMAN experiments (approx. mid-2011 but in stages)
- 3) Web-HUMAN clinical patient availability - phase 1 - the introduction of the specialized separate Patient Pages (Approx. July 11, 2011)
- 4) Web-HUMAN clinical patient availability - phase 2

- the addition of extensive guided teaching Hints to the the Patient section

- the addition of an extensive Analysis section (i.e. the diagnosis, the answers!) to the patient section. (Approx. Dec. 11, 2011)

The major categories explored below are 1) Completely New Features 2) Redesigned already existing features 3) Changes in General Use patterns during the HUMAN 9 period compared to a previous period.

### New features

Total patient trials run since introduction of new Patients formats

<u>Feature</u>	<u>Time Period</u>	<u>Average use/month</u>
Pre-New Patients	Jan. '09-June '11	89.1
New Patients page only	July '11-Nov. '11	424.4
New Patient Page + guide	Dec. '11-May '12	738.9

Peak use months- Dec. 2012 had 2,093 and Apr. 1,134

Conclusion: Each New Patient feature markedly increased the use of Patients.

Total one-clicks run since availability of one clicks

<u>Feature</u>	<u>Time Period</u>	<u>Total Use since inception</u>
One-Click	June '11- June '12	1019
<u>Most popular 1-clicks</u>	June '11- June '12	-----
Light Exercise	June '11- June '12	134
Heavy Exercise	June '11- June '12	115
High Altitude(Pike's Peak)	June '11- June '12	85
Metabolic Acidosis	June '11- June '12	65

Conclusions: One-clicks are only modestly popular, most users prefer to set up their own experiments, the four specific 1-clicks are particularly popular among those using this 1-click mode.

Redesign (that occurred during the HUMAN 9 period)

New users registered during the human 9 period vs. a comparable time period last year

<u>Time Period</u>	<u>Total/ 6 month period</u>
Jan. '09-June '11	78
Dec'11- May '12	290

Conclusion: Human 9 substantially increased user registration

Total experiments saved in Human 9 vs. comparable period last year

<u>Time Period</u>	<u>Total Saved</u>
Jul. '10- May '11	290
Jul. '11-May '12	384

Conclusion: Human 9 substantially increased use of experiment save and retrieve capability

General (Use patterns)

Total on-line help use this year vs. comparable period 2 years ago

1) Use of Help on variables

<u>Time Period</u>	<u>Total</u>
Jan-Dec 2009	5898
Jan-Dec 2011	9488

Conclusion: Help on variable increased substantially with HUMAN 9

2) Use Help on How-do-I (Tests & Procedures)?

<u>Time Period</u>	<u>Total</u>
Jan-Dec 2009	906
Jan-Dec 2011	1299

Conclusion: Help on How to conducts medical tests & procedures increased substantially with HUMAN 9

3) Total simulations run this year vs. comparable period 2 yrs. ago

<u>Time Period</u>	<u>Total</u>
Jan-Dec 2009	52184
Jan-Dec 2011	95472

Conclusion: Human 9 almost doubled the number of web-HUMAN users

4) Total unique IP's this year vs. two years ago

<u>Time Period</u>	<u>Total</u>
Jan-Dec 2009	3192
Jan-Dec 2011	5190

Conclusion: a unique internet provider (IP) likely means that a new institution is using web-HUMAN, all else equal\*. This number is increased by some 63%

\* this statistic could have been improved by analyzing only multiple contiguous IP use which better indicates an entire class on-line.

5) Number of experiments run from an on-campus Skidmore computers (IP address like 141.222.nnn.nnn)

<u>Time Period</u>	<u>Total</u>
Jan-Dec 2009	2842
Jan-Dec 2011	2263

Conclusion: Number of on campus users (i.e. Skidmore courses) has stayed steady. This number is largely due to how many Skidmore courses use web-HUMAN and what their total registration is.

=====  
Overall Conclusions/ summary / observations

1) Human 9 has proved to be very attractive to web-HUMAN users by any measure of the statistics above.

2) The number of sessions (individual experiments) of web-HUMAN run recently has reached near 100,000! Astoundingly unexpected until we did the stats.

3) Many more institutions are using web-HUMAN than before HUMAN 9. That number in the HUMAN 9 first year was around 5,000 institutions.

\* Quality - this statistic could have been improved by analyzing only multiple contiguous IP use which better indicates an entire class on-line.

4) Current in-college use has remained steady the last 3 years. Therefore the preponderance of web-HUMAN use is now by outside users. (very roughly by 100,000 - 5,000 or 95,000!

5) In-college use - I began phased "retirement" in June 2009 and therefore teach  $\approx 1/2$  the number of courses I did when I was full time.

- Ten years ago Skidmore use averaged  $\approx 5,000$  per year.

- During phased Skidmore use averages roughly 2,500 per year.

Therefore Skidmore 'use rate' has remained roughly constant.

6) Outside/Skidmore user numbers have changed drastically.

Excel calculated use via our older use log system indicate for roughly 1993-5\* (\*there are unfortunately some missing pieces of data due to matters not under our control)

- Skidmore sessions- 4,000 - 5,000 per year
- Outside Skidmore sessions - 1,000 per year