

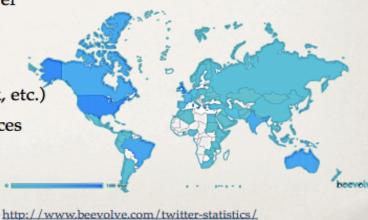
The Basics



Twitter, Inc.



- Launched publicly in July 2006
- A social networking medium of status updates, known as tweets.
- * Asks the question, "What are you doing?"
- All tweets are 140 characters or fewer
- Ways to post a tweet:
 - Applications on mobile devices
 - Web interface (Twitter, Facebook, etc.)
 - Text messages from mobile devices
- Global Usage
- Majority of content is public (Moore 2009)





Twitter: Statistics

Twitter Company Statistics	Data
Total number of registered Twitter users	695,750,000
Total number of active Twitter users	342,000,000
Number of new Twitter users signing up everyday	135,000
Number of unique Twitter site visitors every month	195 million
Average number of tweets per day	58 million
Number of Twitter search engine queries every day	2.1 billion
Percent of Twitter users who use their phone to tweet	43 %
Percent of tweets that come from third party applicants	60%
Number of people that are employed by Twitter	2,500
Number of active Twitter users every month	115 million
Percent of Twitters who don't tweet but watch other people tweet	40%
Number of days it takes for 1 billion tweets	5 days
Number of tweets that happen every second	9,100







Statistics: Facebook, Instagram, Twitter

Facebook Demographics Among internet users, the % who use Facebook

Instagram Demographics

Twitter Demographics

Among internet users, the % who use Instagram

Among internet users, the % who use Twitter

Among ther het users, the 70 who use I decook		Among ther her users, the 70 who use Instagrant		Among the net users, the 78 who use Twitter	
	Internet users		Internet users		Internet users
Total	72%	Total	28%	Total	23%
Men	66	Men	24	Men	25
Women	77	Women	31	Women	21
White, Non-Hispanic	70	White, Non-Hispanic	21	White, Non-Hispanic	20
Black, Non-Hispanic (n=85)	67	Black, Non-Hispanic (n=85)	47	Black, Non-Hispanic (n=85)	28
Hispanic	75	Hispanic	38	Hispanic	28
18-29	82	18-29	55	18-29	32
30-49	79	30-49	28	30-49	29
50-64	64	50-64	11	50-64	13
65+	48	65+	4	65+	6
High school grad or less	71	High school grad or less	25	High school grad or less	19
Some college	72	Some college	32	Some college	23
College+	72	College+	26	College+	27
Less than \$30,000/yr	73	Less than \$30,000/yr	26	Less than \$30,000/yr	21
\$30,000-\$49,999	72	\$30,000-\$49,999	27	\$30,000-\$49,999	19
\$50,000-\$74,999	66	\$50,000-\$74,999	30	\$50,000-\$74,999	25
\$75,000+	78	\$75,000+	26	\$75,000+	26
Urban	74	Urban	32	Urban	30
Suburban	72	Suburban	28	Suburban	21
Rural	67	Rural	18	Rural	15

Source: Pew Research Center, March 17-April 12, 2015.

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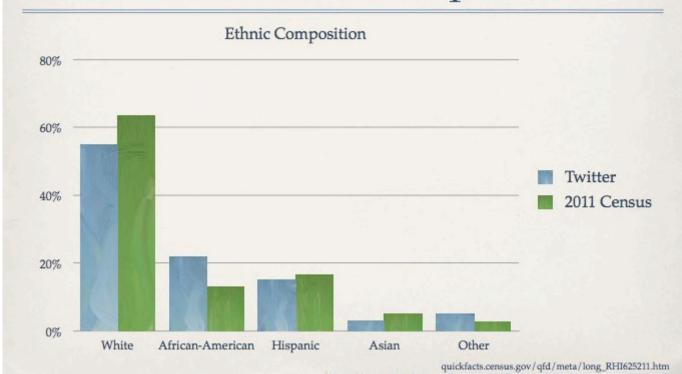
PEW RESEARCH CENTER

Source: Pew Research Center, March 17-April 12, 2015.

PEW RESEARCH CENTER



Ethnic Composition: Monthly Twitter Users vs. US Population





Relevance in Research:

- Demand for Information: "61% of U.S. adults search for health information online, and 59% of adult Internet users have looked online for information about specific diseases or treatments (Pew Research, 2009, 2011)."
- Traditional Sources: "On the other hand, peerreview journal articles and professional presentations are still the two major methods used by researchers to disseminate their work (Chen et al., 2010; CTSA Consortium 2008). "
- Communication Gap: "As a result, 'scientists are failing at communicating science to the (wide) public' (The Welcome Trust, 2001; Wilcox, 2012)."

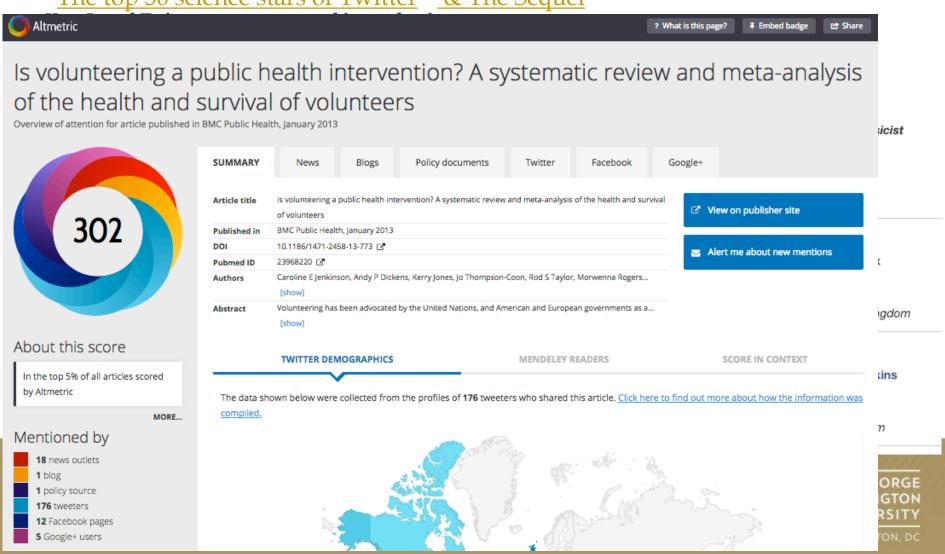


Disseminating UCSF research & connecting with disease communities via social media automation, CTSI, UCSF. Chatterjee 2012. http://open-proposals.ucsf.edu/itcontest/proposal/139



H Index, K Index?, Altmetrics

The top 50 science stars of Twitter & The Sequel







More than a hospital, we're a health system for kids. Review our Social Media & Blog Commenting Rules of Engagement: ht.ly/zIOID.

Washington, DC 8 childrensnational.org

Tweets & replies Media Children's National @childrenshealth - Dec 2 Over the coming weeks, look out for features on some of our docs named to @Washingtonian's list of #topdocs!





CDC @ @CDCgov · Dec 2

#Zika prevention takes a community! Ask neighbors to join you in getting rid of mosquitoes around your community. bit.ly/29tNfMy



NIH

NINR @ @NINR · Dec 1

Today is the last day to apply for to our Graduate Partnerships Program: go.usa.gov/bwET



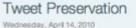






Hello Twitterverse! We r now LIVE tweeting from the International Space Station -- the 1st live tweet from Space! :) More soon, send your ?s

22 Jan via web Pavorite 13 Retweet 4 Reply







Library to acquire ENTIRE Twitter archive -- ALL public tweets, ever, since March 2006! Details to follow.

14 Apr via web Pavorite 13 Retweet + Reply



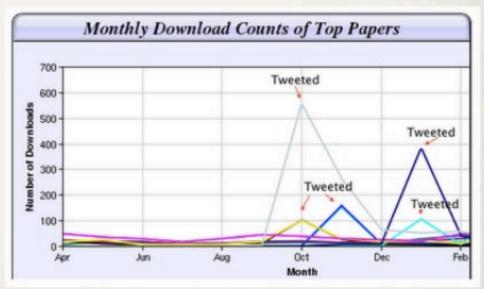


Demand for Information



A recent case report shows that more people look at research articles promoted on social media compared to those that are not promoted on social media.

- "Tweeted" articles were downloaded more often than non-tweeted articles
- Implication: Twitter is a promising dissemination tool for relaying research findings to the public outside academia



*Prior to tweeting links to her articles, there had been only one or two download(s) of each article.

(Terras 2012)



Do people tweet about their health?



still very ill from Broncitus,3 weeks now,of course I know that

Expand





Moany tweet: Have lost a whole day to a vicious migraine. Anyone here ever cured their migraines for good? Have tried most things in 30 yrs!

smoking does not help, but it is my addiction, and I am dealing with it!

Expand



Wish I wasn't so terrified of the dentist, this toothache is becoming unbearable. Wanna be able to eat chocolate:(

Expand



My daddy is diagnosed with melanoma. One of the worst types of cancer: "(please pray for him everyone

Expand



18 Oct

18 Oct

20 Oct

Twitter Use in Health-Related Research: Examples in Literature

1. Using Twitter to identify use and misuse of antibiotics







Dissemination of health information through social networks: Twitter and antibiotics

Scanfeld et al., 2010

Aim 1: Content analysis and categorization of tweets related to antibiotics

Aim 2: Investigate misuse or misunderstanding of antibiotics expressed by Twitter users

- Search Terms: cold + antibiotic(s), extra + antibiotic(s), flu + antibiotic(s), leftover + antibiotic(s), share + antibiotic(s)
- N = 971 tweets
- Example:
 - Go get a shot, babe. Or some Murine ear drops from Walgreens. I can also mail outmy leftover antibiotics.
- Conclusions:
 - Antibiotic use, misuse and related information is shared extensively on Twitter
 - Twitter offers a venue to identify misuse or misunderstanding of antibiotics
 - HCP's can use social media to collect and disseminate trustworthy information thereby promoting healthy behaviors to the public.

Categorization of antibiotic-related tweets				
Tweet Category	Frequency			
General use	289 (30%)			
Advice/Information	157 (16%)			
Side effects/Negative Reactions	113 (12%)			
Diagnosis	102 (10%)			
Resistance	92 (9%)			
Misuse/Misunderstanding	55 (6%)			
Positive Reactions	48 (5%)			
Animals	46 (5%)			
Other	42 (4%)			
Wanting/Needing	19 (2%)			
Cost	8 (1%)			



'What's happening?' A content analysis of concussion-related traffic on Twitter

Sullivan et al., 2012

Aim: To determine the concept and context of concussion-related tweets

 N = 1000 tweets using search terms, concussion, concussions, concuss, consussed and their respective hashtags

* Example:

 Yep. Pretty sure it's a concussion. What do I do? No sleeping, right?

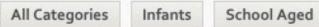
Conclusion:

- Twitter serves as a powerful broadcast medium for sports concussion information and education
- Insight into how Twitter is being used to propagate injury information
- Propagation of misinformation could lead to unfavorable outcomes

Categorization of concussion tweets			
Tweet Category	Frequency		
News	468 (33.2%)		
Personal Information/Situation	377 (26.8%)		
Inferred Management	181 (12.9%)		
Downplay	107 (7.6%)		
Advertising	95 (6.7%)		
Report Signs/Symptoms	83 (5.9%)		
Miscellaneous/Irrevelant	56 (3.9%)		
Seeking/Clarifying Status	23 (1.6%)		
Seeking Explicit Advice	19 (1.4%)		







Five Things Parents Should Know About Talking to Their Baby

Teens

Friday, November 25, 2016





Being a new parent isn't easy. Between feedings, changing diapers, and running errands, parents barely have a spare moment to breathe. Combine that with the countless how-to parenting books and articles that are thrown at them on a daily basis, and it's easy to see how caregivers can feel unsure about their parenting skills and if they're doing enough.

Toddlers

In reality, there is a simple, painless solution that can fit into an already packed daily routine to make sure a

baby's brain is growing big and strong:

Talking!



Twitter Basics: 5 Simple Steps to Get You Started

③ 04/23/2015 09:24 pm ET I Updated Jun 23, 2015











Children's National 7

Co-authored by Monica McLemore, PhD, MPH, RN, assistant professor at the University of California San Francisco, and Candace W. Burton, PhD, RN, AFN-BC, AGN-BC, FNAP assistant professor at Virginia Commonwealth University.

First things first: what's Twitter? Twitter is a microblogging, content-sharing social media website, which is one of the most visited websites daily. On Twitter, you have only 140 characters to get your point across in what are called "tweets."

There are almost 6.5 million registered Twitter users who send nearly 58 million tweets per day. Twitter has been around for almost 10 years. It's not too late to ind participate! Do you want to use Twitter but you don't know where to hope this helps.





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TRENDING -

Topless Prankst Learn Tough Life After Crashing N York Jets' Game



Ashley Darcy-Mahoney

@ADarcyMahoney

Miami Native. Neonatal Nurse Practitioner. Infant Researcher. GW nursing professor. Futballer. Proud Hoya & Penn alumna!

Washington, DC

@ nursing.gwu.edu/ashley-darcy-m...

iii Joined January 2011