

# PA Vaccine Conversations on Twitter

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Vaccine Hesitancy Project Update based on September 2, 2022 – September 8, 2022

The CMU centers for:

Informed DEMocracy And Social cyber-security

Computational Analysis of Social and Organizational Systems



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1

## PA Vaccine Conversations Project

- ❑ This report is an effort to summarize social media conversations around COVID-19 issues in Pennsylvania, with a focus on vaccination. It contains an analysis of the general topics related to COVID-19 vaccination. This includes discussions related to COVID-19 regulations, mandates, masks, pro-and anti-vaccination campaigns, science messages, misinformation, disinformation, conspiracy theories, and vaccine hesitancy messages.
- ❑ Anti-Vax messaging includes vaccine hesitancy messages, opinions, questions, policy health and science related information, misinformation, disinformation, and conspiracy theories.

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2

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## Report Overview September 2 – September 8

- ❑ Boosters, Mandates, Masks are trending this week; Boosters, Ivermectin are trending this week over last;
- ❑ Trending stories: [msn.com/en-us/news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement-so-they-can-earn-a-few-extra-bucks-and-ease-the-labor-shortage/ar-AA11p8W2](https://www.msn.com/en-us/news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement-so-they-can-earn-a-few-extra-bucks-and-ease-the-labor-shortage/ar-AA11p8W2) GOP senator Ron Johnson says he wants to 'coax' seniors out of retirement so they can 'earn a few extra bucks' and ease the labor shortage; [gov.uk/government/publications/regulatory-approval-of-pfizer-biontech-vaccine-for-covid-19/summary-public-assessment-report-for-pfizerbiontech-covid-19-vaccine](https://www.gov.uk/government/publications/regulatory-approval-of-pfizer-biontech-vaccine-for-covid-19/summary-public-assessment-report-for-pfizerbiontech-covid-19-vaccine) Summary of the Public Assessment Report for COVID-19 Vaccine Pfizer/BioNTech; [washingtonpost.com/national-security/2022/08/03/ron-johnson-medicare-social-security](https://www.washingtonpost.com/national-security/2022/08/03/ron-johnson-medicare-social-security) Sen. Johnson suggests ending Medicare, Social Security as mandatory spending programs; [thetimes.co.uk/article/ed86c642-2b81-11ed-a4d5-afa440292fae](https://www.thetimes.co.uk/article/ed86c642-2b81-11ed-a4d5-afa440292fae) Moderna aims to give investors extra boost with 6-in-1 superjab
- ❑ Popular anti-vax tweets: This Labor Day, remember, all 50 Democrat U.S. Senators voted for you to lose your job if you didn't take the COVID vaccine; NEWS: 32 young Canadian doctors "died suddenly" in the past 16 months while fully COVID-19 vaccinated! These doctors were actively practicing medicine & were healthy prior to taking illegally mandated COVID-19 Vaccines (2, 3 or 4 doses). credit to Dr. William Makis MD <https://t.co/eFXyfsCPrk>

9/26/2022



## Popular anti-vax stories sorted by the number of retweets

Anti-vax, disinformation, and vaccine hesitancy stories sorted by the number of shares:

- ❑ [youtu.be/S4DnG5Ar1eE](https://youtu.be/S4DnG5Ar1eE) CHOP Vaccine Expert: Wait for More Info Before Getting New Vaccine Booster;
- ❑ [thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech](https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech) BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech;
- ❑ [igorhudoov.substack.com/p/all-bivalent-boosted-mice-got-covid](https://igorhudoov.substack.com/p/all-bivalent-boosted-mice-got-covid) All "Bivalent Boosted" Mice Got Covid When Challenged;
- ❑ [rumble.com/v1ij4p-global-cv19-vax-propaganda-means-mass-casualties-dr-pierre-kory.html](https://rumble.com/v1ij4p-global-cv19-vax-propaganda-means-mass-casualties-dr-pierre-kory.html) Global CV19 Vax Propaganda Means Mass Casualties – Dr. Pierre Kory;
- ❑ [theepochtimes.com/pfizer-has-stopped-its-covid-vaccine-clinical-trial-in-pregnant-women-internal-email-4700143.html](https://theepochtimes.com/pfizer-has-stopped-its-covid-vaccine-clinical-trial-in-pregnant-women-internal-email-4700143.html) Pfizer Has Stopped Its COVID Vaccine Clinical Trial in Pregnant Women: Internal Email;
- ❑ [breannamorello.substack.com/p/fox-corp-told-me-to-comply-with-the](https://breannamorello.substack.com/p/fox-corp-told-me-to-comply-with-the) FOX CORP TOLD ME TO COMPLY WITH THE NYC COVID VACCINE MANDATE, SO I RESIGNED;
- ❑ [dlvr.it/SXkb65](https://dlvr.it/SXkb65) Ivermectin reduces COVID death risk by 92%, peer-reviewed study finds;
- ❑ [breitbart.com/politics/2022/09/05/three-ten-americans-did-not-get-coronavirus-vaccine](https://breitbart.com/politics/2022/09/05/three-ten-americans-did-not-get-coronavirus-vaccine) Poll: Three in Ten Americans Did Not Get a Coronavirus Vaccine;
- ❑ [childrenshealthdefense.org/defender/pfizer-covid-vaccine-treatment-sales-record-high-revenue-cola](https://childrenshealthdefense.org/defender/pfizer-covid-vaccine-treatment-sales-record-high-revenue-cola) Pfizer to Make Record \$54 Billion From COVID Shots and Treatment;
- ❑ [dailymail.co.uk/sport/sportsnews/article-10542765/Romanias-famous-football-team-Steaua-Bucharest-announce-ban-VACCINATED-players.html](https://dailymail.co.uk/sport/sportsnews/article-10542765/Romanias-famous-football-team-Steaua-Bucharest-announce-ban-VACCINATED-players.html) Romania's most famous football team, Steaua Bucharest, announce a ban on VACCINATED players, because their madcap owner says that athletes 'lose strength' - and claims those that are jabbed die in hospitals;
- ❑ [bitchute.xyz/FLlvhQFhbcuk](https://bitchute.xyz/FLlvhQFhbcuk) DEADLY SHOTS! FORMER PFIZER EMPLOYEE CONFIRMS POISON IN COVID 'VACCINE';
- ❑ [sensiblenews.substack.com/p/before-we-push-the-new-omicron-vaccine](https://sensiblenews.substack.com/p/before-we-push-the-new-omicron-vaccine) Before We Push the New Omicron Vaccine, Let's See The Data

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## Countering disinformation September 2 – September 8

Articles and fact-checking stories debunking disinformation for the last week:

- ❑ Fact Check: COVID-19 Vaccines Are NOT '98 Times Worse Than The Virus' -- Benefits 'Far Outweigh The Risk Of Serious Health Effects' <https://leadstories.com/hoax-alert/2022/09/fact-check-covid-vaccines-are-not-98-times-worse-than-the-virus.html>;
- ❑ Fact check: NIH continues to recommend against using ivermectin as a COVID-19 treatment <https://www.usatoday.com/story/news/factcheck/2022/09/14/fact-check-nih-recommends-against-ivermectin-as-covid-19-treatment/8039630001/>;
- ❑ Ask PolitiFact: Why were the recent COVID-19 boosters authorized before human trials were completed? [https://www.politifact.com/article/2022/sep/13/ask-politifact-why-were-recent-covid-19-boosters-a/?utm\\_medium=Social&utm\\_source=Twitter#Echobox=1663164834](https://www.politifact.com/article/2022/sep/13/ask-politifact-why-were-recent-covid-19-boosters-a/?utm_medium=Social&utm_source=Twitter#Echobox=1663164834);
- ❑ Fact check: New COVID-19 boosters were tested in just 8 mice? Should it matter? <https://www.cbs17.com/community/health/coronavirus/fact-check-were-new-covid-19-boosters-tested-in-just-8-mice-should-it-matter/>

9/26/2022



## Measures for countering health disinformation

- ❑ Anti-vaccine narratives are still pervasive on social media, while there are not that many counter-narratives about the positive effects of vaccines;
- ❑ There is a need for a reframing of social media as a medically and socially valuable resource and platform because of its high impact on society;
- ❑ Healthcare organizations need to implement social media strategies to create and expand conversations countering disinformation on social media;
- ❑ It would be helpful for health communicators to cooperate with local influencers who could spread pro-vaccination messages. Another strategy could be to motivate health practitioners to use social media as a channel for communication with the public;
- ❑ "Strategies focused on meaningfully and safely engaging HCPs on social media, promoting interconnectivity across the medical and public health communities on COVID-19 vaccine truths, and sustaining these messaging efforts across vaccine implementation stages will be our best hope of preventing any more missed doses and promoting "misinformation immunity" for all." (Hernandez et al. 2021. "The COVID-19 vaccine social media infodemic: healthcare providers' missed dose in addressing misinformation and vaccine hesitancy.")

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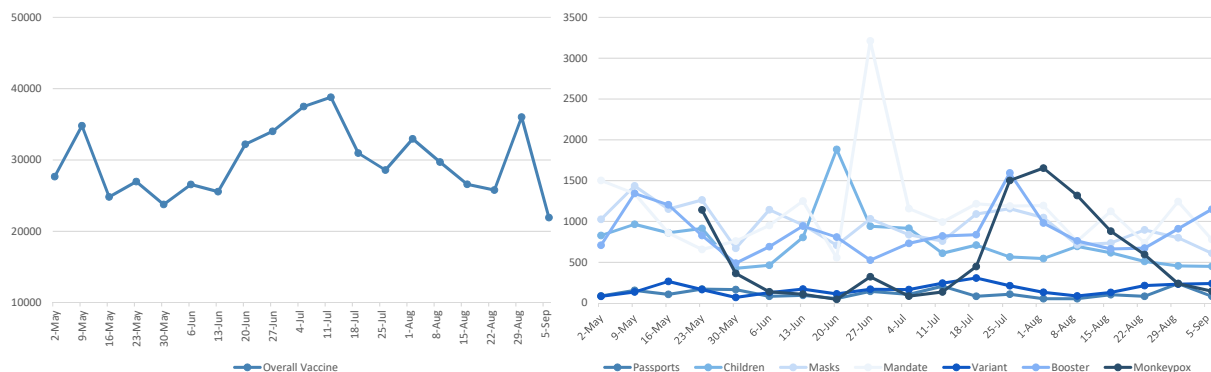
## Measures for countering health disinformation

- ❑ As a trusted source of information on vaccines, family physicians play a crucial role in driving vaccine acceptance;
- ❑ Sharing stories, building trust with patients, addressing pain associated with vaccination, presenting vaccination as the default approach early on, focusing on the benefits of protection, and being honest about side effects could also help to promote pro-vaccination attitudes (Shen & Dubey 2019. "Addressing vaccine hesitancy: Clinical guidance for primary care physicians working with parents");
- ❑ It is helpful to provide more information for the patients about the possible disinformation strategies they may deal with, such as manipulating emotions to promote misinformation and conspiracy theories to sow confusion and create division. Inoculation strategy may help to prepare the community by presenting counterarguments to misinformation and raising awareness of negative emotional appeals spread by anti-vaccine campaigns;
- ❑ Framing vaccination as a concrete, actionable strategy to reduce COVID-19 risk may help to address negative emotions, increase self-efficacy and ensure the feelings of control over reducing COVID-19 risk.

9/26/2022



## Trends (tweets per week in PA) September 2 – September 8



9/26/2022



## High Level View by City September 2 – September 8

	Total PA	Philadelphia		Pittsburgh		Erie		Allentown/Bethlehem		Other	
Conversation	Tweets	Tweets	%	Tweets	%	Tweets	%	Tweets	%	Tweets	%
Overall Vaccine	18662	9229	49.5%	6073	32.5%	160	0.9%	2037	10.9%	1163	6.2%
Vaccine Passports	83	45	0.5%	20	0.3%	2	1.3%	7	0.3%	9	0.8%
FDA Approval	41	11	0.1%	18	0.3%	2	1.3%	8	0.4%	2	0.2%
Boosters	1146	677	7.3%	270	4.4%	11	6.9%	123	6.0%	65	5.6%
Employees	41	20	0.2%	9	0.1%	1	0.6%	7	0.3%	4	0.3%
"Experimental"	51	31	0.3%	9	0.1%			9	0.4%	2	0.2%
Children	374	298	3.2%	26	0.4%	1	0.6%	34	1.7%	15	1.3%
Myocarditis	63	37	0.4%	17	0.3%			9	0.4%		
Heart	159	81	0.9%	52	0.9%			23	1.1%	3	0.3%
Masks	598	296	3.2%	143	2.4%	4	2.5%	61	3.0%	94	8.1%
Thrombosis/VITT	8	5	0.1%	2	0.0%			1	0.0%		
Mandates	701	402	4.4%	145	2.4%	4	2.5%	112	5.5%	38	3.3%
Natural Immunity	38	24	0.3%	9	0.1%			5	0.2%		
Efficacy	40	18	0.2%	7	0.1%			11	0.5%	4	0.3%
Omicron	239	141	1.5%	49	0.8%	8	5.0%	29	1.4%	12	1.0%
Delta Variant	41	19	0.2%	2	0.0%			6	0.3%	14	1.2%
Race	504	279	3.0%	135	2.2%	5	3.1%	51	2.5%	34	2.9%
Ivermectin	89	48	0.5%	22	0.4%	1	0.6%	16	0.8%	2	0.2%
Military	117	43	0.5%	41	0.7%	1	0.6%	29	1.4%	3	0.3%
Breakthrough	11	6	0.1%	3	0.0%			1	0.0%	1	0.1%

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Conversation topics trending this week over last:

- Boosters
- Ivermectin



## High Level View by County September 2 – September 8

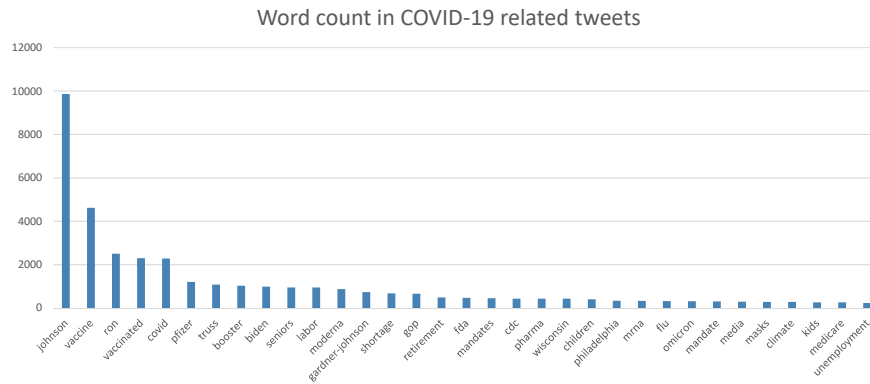
County	Allegheny	Beaver	Butler	Cambria	Fayette	Indiana	Somerset	Westmoreland
Overall Vaccine	6272	29	26	19	12	3	6	50
Vaccine Passports	22					1		
FDA	18							
Boosters	287		2					7
Employees	9							
"Experimental"	10			1				
Children	30		2	1	1		2	
Myocarditis	17							
Heart	52							
Masks	157		2	2			3	1
Thrombosis/VITT	2							
Mandates	150					1	1	5
Natural Immunity	9							
Efficacy	8							
Omicron	51							1
Delta Variant	5		2	1				2
Race	141			1				1
Ivermectin	22							
Military	41							
Breakthrough	3							

9/26/2022

- Race: pulled by one of the vaccine keywords plus at least one other term in ("Black", "African American", "of color", "Latin", "Hispanic", "brown", "eugenic")



## Top Words Used per Week September 2 – September 8



9/26/2022



## Top Hashtags by County September 2 – September 8

- ❑ We've checked hashtags in several counties such as Allegheny, Beaver, Butler, Cambria, Fayette, Indiana, Somerset, and West Moreland. After removing hashtags that were part of our search criteria, the top 5 hashtags for each county related to COVID19/vaccines are as follows\*:

Allegheny	Cambria	Indiana
vaccine (59)	maskup (2)	novaccinemandates (1)
covid19 (42)	covidsafe (1)	novaccinepassports (1)
pfizer (23)		
enoughisenough (20)		
longcovid (12)		

9/26/2022



## Top Hashtags by City September 2 – September 8

- ❑ After removing hashtags that were part of our search criteria, the top 5 hashtags for each region related to COVID19/vaccines are as follows:

Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/ Bethlehem	Other
vaccine (64)	covid19 (8)	covid19 (28)	vaccine (59)	pfizer (2)	covid (31)	vaccine (5)
covid19 (59)	hepatitisb (5)	pfizer (19)	covid19 (42)	bigpharma (1)	vaccine (14)	covid19 (4)
monkeypox (19)	brexit (4)	vaccine (16)	pfizer (23)	biopharma (1)	longcovid (8)	pfizer (4)
pfizer (19)	covid (4)	fda (4)	enoughisenough (20)	moderna (1)	pfizer (7)	maskup (3)
moderna (15)	pfizer (3)	vaccineinjured (3)	longcovid (12)	vaccines (1)	fda (4)	monkeypox (1)

9/26/2022



## Top URLs by County September 2 – September 8

Allegheny	Beaver + Butler	Cambria	Fayette	Indiana	Moreland
<a href="https://www.msn.com/en-us/news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement-so-they-can-earn-a-few-extra-bucks-and-ease-the-labor-shortage/ar-AA1p0WZ">msn.com/en-us/news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement-so-they-can-earn-a-few-extra-bucks-and-ease-the-labor-shortage/ar-AA1p0WZ</a> GOP senator Ron Johnson says he wants to 'coax' seniors out of retirement so they can 'earn a few extra bucks' and ease the labor shortage (187)	<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (1)	<a href="https://www.npr.org/2022/09/02/1111111111">npr.org/2022/09/02/1111111111</a> FDA authorizes first revamp of COVID vaccines to target omicron (1)	<a href="https://trib.al/xcd4tcd">trib.al/xcd4tcd</a> China Is Battling Its Broadest Covid Outbreak Yet (1)	<a href="https://childrenshealthdefense.org/defender/pfizer-covid-vaccine-treatment-sales-record-high-revenue-could-phizer-to-make-record-554-billion-from-covid-shots-and-treatment">childrenshealthdefense.org/defender/pfizer-covid-vaccine-treatment-sales-record-high-revenue-could-phizer-to-make-record-554-billion-from-covid-shots-and-treatment</a> (1)	<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (1)
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<a href="https://igorhudoysubstack.com/p/all-bivalent-boosted-mice-got-covid-all-bivalent-boosted-mice-got-covid">igorhudoysubstack.com/p/all-bivalent-boosted-mice-got-covid-all-bivalent-boosted-mice-got-covid</a> All 'Bivalent Boosted' Mice Got Covid When Challenged (27)					
<a href="https://gov.uk/government/publications/regulatory-approval-of-pfizer-biontech-vaccine-for-covid-19-summary-public-assessment-report-for-pfizer-biontech-covid-19-vaccine">gov.uk/government/publications/regulatory-approval-of-pfizer-biontech-vaccine-for-covid-19-summary-public-assessment-report-for-pfizer-biontech-covid-19-vaccine</a> Summary of the Public Assessment Report for COVID-19 Vaccine Pfizer/BioNTech (19)					
<a href="https://thetimes.co.uk/article/ed86c642-2b81-11ed-a4d5-af440292fae">thetimes.co.uk/article/ed86c642-2b81-11ed-a4d5-af440292fae</a> Moderna aims to give investors extra boost with 6-in-1 superjab (15)					

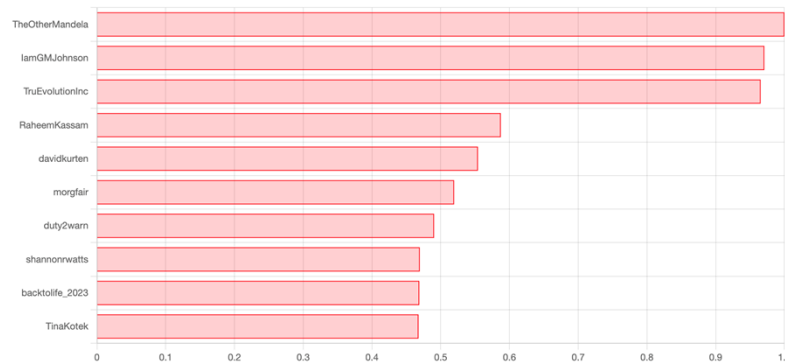
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## Top URLs by City September 2 – September 8

Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/ Bethlehem	Other
<a href="https://youtu.be/S4dnG5AR1eE">youtu.be/S4dnG5AR1eE</a> CHOP Vaccine Expert: Wait for More Info Before Getting New Vaccine Booster (167)	<a href="https://rumble.com/v1i1l4p-global-covid-19-vax-propaganda-means-mass-casualties-Dr-Pierre-Kory.html">rumble.com/v1i1l4p-global-covid-19-vax-propaganda-means-mass-casualties-Dr-Pierre-Kory.html</a> Global CV19 Vax Propaganda Means Mass Casualties - Dr. Pierre Kory (25)	<a href="https://us.news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement-so-they-can-earn-a-few-extra-bucks-and-ease-the-labor-shortage-at-A1111072">us.news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement-so-they-can-earn-a-few-extra-bucks-and-ease-the-labor-shortage-at-A1111072</a> GOP senator Ron Johnson says he wants to 'coax' seniors out of retirement so they can 'earn a few extra bucks' and ease the labor shortage (69)	<a href="https://us.news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement-so-they-can-earn-a-few-extra-bucks-and-ease-the-labor-shortage-at-A1111072">us.news/politics/gop-senator-ron-johnson-says-he-wants-to-coax-seniors-out-of-retirement so they can 'earn a few extra bucks' and ease the labor shortage (187)</a>	<a href="https://globalnews.ca/news/9082286/health-canada-moderna-bivalent-vaccine-approval">globalnews.ca/news/9082286/health-canada-moderna-bivalent-vaccine-approval</a> Health Canada approves Moderna's Omicron COVID booster, 780K doses arriving Friday (2)	<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (14)	<a href="https://propublica.org/article/montana-covid-response-pushed-hospital-to-brick-the-human-psyche">propublica.org/article/montana-covid-response-pushed-hospital-to-brick-the-human-psyche</a> Was Not Built for This? How Republicans in Montana hijacked public health and brought a hospital to the brink (5)
<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (25)	<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (5)	<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (18)	<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (50)	<a href="https://washingtonpost.com/national-security/2022/08/03/ron-johnson-med-care-social-security-sen-johnson-suggests-ending-medicare-social-security-as-mandatory-spending-programs-2/">washingtonpost.com/national-security/2022/08/03/ron-johnson-med-care-social-security-sen-johnson-suggests-ending-medicare-social-security-as-mandatory-spending-programs-2/</a>	<a href="https://sciencedirect.com/science/article/S0746767110022010">sciencedirect.com/science/article/S0746767110022010</a> 283 Serious adverse events of special interest following mRNA COVID-19 vaccination in randomized trials in adults (9)	<a href="https://thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech">thepostmillennial.com/breaking-biden-admin-held-weekly-censorship-meetings-with-social-media-giants-to-suppress-covid-and-vaccine-speech</a> BREAKING: Biden admin held weekly censorship meetings with social media giants to suppress COVID and vaccine speech (5)
<a href="https://washingtonpost.com/national-security/2022/08/03/ron-johnson-med-care-social-security-sen-johnson-suggests-ending-medicare-social-security-as-mandatory-spending-programs-1-7/">washingtonpost.com/national-security/2022/08/03/ron-johnson-med-care-social-security-sen-johnson-suggests-ending-medicare-social-security-as-mandatory-spending-programs-1-7/</a>	<a href="https://madison.com/news/local/govt-and-politics/ron-johnson-encourages-seniors-to-rejoin-the-workforce-proposes-payroll-tax-waiver/article/5742f6a-c070-5913-a785-432ac9b07c18">madison.com/news/local/govt-and-politics/ron-johnson-encourages-seniors-to-rejoin-the-workforce-proposes-payroll-tax-waiver/article/5742f6a-c070-5913-a785-432ac9b07c18</a> Ron Johnson encourages seniors to rejoin the workforce, proposes payroll tax waiver (5)	<a href="https://theepochtimes.com/pfizer-has-stopped-its-covid-vaccine-clinical-trial-in-pregnant-women-internal-email-4700143.html">theepochtimes.com/pfizer-has-stopped-its-covid-vaccine-clinical-trial-in-pregnant-women-internal-email-4700143.html</a> Pfizer Has Stopped Its COVID Vaccine Clinical Trial in Pregnant Women: Internal Email (13)	<a href="https://igorbudov.substack.com/p/zalt-brutal-awoke-me-mice-govt-a11-Bivalent-Goodwill?Mice-Got-Covid-When-Challenged">igorbudov.substack.com/p/zalt-brutal-awoke-me-mice-govt-a11-Bivalent-Goodwill?Mice-Got-Covid-When-Challenged</a>	<a href="https://bitchute.xyz/FLwVb0Hbuc">bitchute.xyz/FLwVb0Hbuc</a> DEADLY SHOTS! FORMER PFIZER EMPLOYEE CONFIRMS POISON IN COVID 'VACCINE' (1)	<a href="https://breannanmold.substack.com/p/m/p-flox-corp-told-me-to-keep-their-shots-out-of-nypd">breannanmold.substack.com/p/m/p-flox-corp-told-me-to-keep-their-shots-out-of-nypd</a> NYPD TOLD ME TO COMPLY WITH THE NYC COVID VACCINE MANDATE, I RESIGNED (8)	<a href="https://evanahospital.com/virus-Coronavirus-Update-4">evanahospital.com/virus-Coronavirus-Update-4</a>
<a href="https://fortune.com/2022/09/05/can-sino-china-worries-first-inhaled-vaccine-omicron">fortune.com/2022/09/05/can-sino-china-worries-first-inhaled-vaccine-omicron</a> Scientists say that inhaled and nasal vaccines may be needed to beat Omicron. China just approved the world's first inhaled one (16)	<a href="https://sciencedirect.com/science/article/S0746767110022010">sciencedirect.com/science/article/S0746767110022010</a> Serious adverse events of special interest following mRNA COVID-19 vaccination in randomized trials in adults (3)	<a href="https://youtu.be/S4dnG5AR1eE">youtu.be/S4dnG5AR1eE</a> CHOP Vaccine Expert: Wait for More Info Before Getting New Vaccine Booster (8)	<a href="https://gov.uk/government/publications/regulatory-approval-of-pfizer-biontech-vaccine-for-covid-19">gov.uk/government/publications/regulatory-approval-of-pfizer-biontech-vaccine-for-covid-19</a> Summary of the Public Assessment Report for COVID-19 Vaccine Pfizer/BioNTech (19)	<a href="https://bitchute.xyz/Vxah29D54tU">bitchute.xyz/Vxah29D54tU</a> FORMER MICE TRUMP JOHNSON DISCUSSES DERRE'S LAW AND ORTER TAKES DOWN CABAL WITH NICHOLAS VENIAMIN (1)	<a href="https://dylr.it/SXb65">dylr.it/SXb65</a> Ivermectin reduces COVID death risk by 92%, peer-reviewed study finds (8)	<a href="https://sciencedirect.com/science/article/S0746767110022010">sciencedirect.com/science/article/S0746767110022010</a> Serious adverse events of special interest following mRNA COVID-19 vaccination in randomized trials in adults (4)
<a href="https://wsi.com/articles/us-shots-shift-to-annual-covid-vax-plans-new-boosters-roll-out-11662484474">wsi.com/articles/us-shots-shift-to-annual-covid-vax-plans-new-boosters-roll-out-11662484474</a> US Plans Shift to Annual Covid Shots as New Boosters Roll Out (15)	<a href="https://breitbart.com/politics/2022/09/05/three-ten-americans-did-not-get-the-covid-vaccine-poll-11662484474">breitbart.com/politics/2022/09/05/three-ten-americans-did-not-get-the-covid-vaccine-poll-11662484474</a> Poll: Three in Ten Americans Did Not Get a Coronavirus Vaccine (2)	<a href="https://dylr.it/SXb65">dylr.it/SXb65</a> Ivermectin reduces COVID death risk by 92%, peer-reviewed study finds (7)	<a href="https://thetimes.co.uk/article/6c9c2b81-1fcd-4a65-af414029-21e4">thetimes.co.uk/article/6c9c2b81-1fcd-4a65-af414029-21e4</a> Moderna aims to give investors extra superab boost with 6-in-1 superjab (15)	<a href="https://sensiblenorm.substack.com/p/n/p-flore-we-push-the-new-omicron-vaccine-Before-We-Push-the-New-Omicron-Vaccine-Lets-See-The-Data">sensiblenorm.substack.com/p/n/p-flore-we-push-the-new-omicron-vaccine-Before-We-Push-the-New-Omicron-Vaccine-Lets-See-The-Data</a> (1)	<a href="https://thetimes.co.uk/article/d686c9c2b81-1fcd-4a65-af414029-21e4">thetimes.co.uk/article/d686c9c2b81-1fcd-4a65-af414029-21e4</a> Moderna aims to give investors extra boost with 6-in-1 superjab (8)	<a href="https://axios.com/2022/09/02/paxlovid-turns-into-pandemic-game-changer">axios.com/2022/09/02/paxlovid-turns-into-pandemic-game-changer</a> 'Game-changer' Paxlovid turns into pandemic enigma (2)

## Analysis of Tweeters - Super Spreaders

- ❑ Super Spreaders are users which generate content that is shared often, and hence spread information effectively.

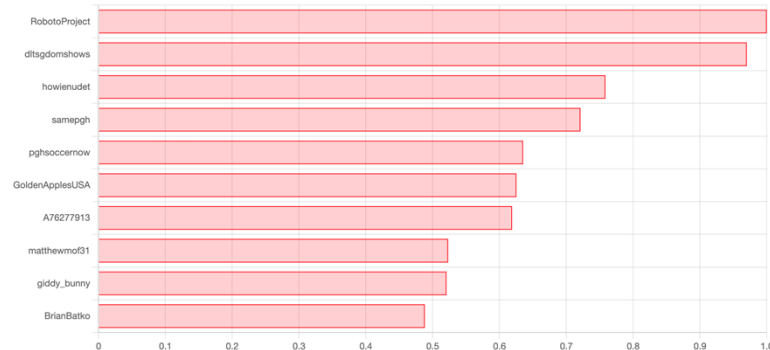


9/26/2022



## Analysis of Tweeters - Super Friends

- ❑ Super Friends are users that exhibit frequent two-way communication, facilitating large or strong communication networks.



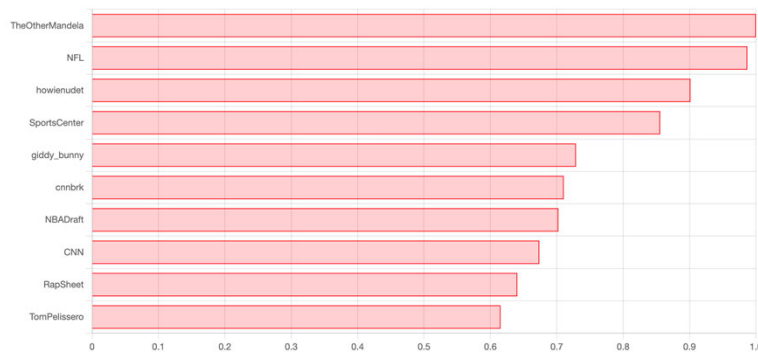
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17

## Analysis of Tweeters - Other Influencers

- ❑ Other Influencers are users which have an active network presence, by tweeting often or mentioning users often, and operate in central parts of the conversation, such as by using important hashtags, or mentioning important users.



9/26/2022



18

## Accounts Referenced by the Most Tweets

- ❑ This shows the tweeters that are most often referenced (e.g. mentioned) in PA tweets. Value is the number of tweets that reference the agent.

Agent Label	Value
TheOtherMandela	557
morgfair	270
pfizer	270
bennyjohnson	269
duty2warn	256
backtolife_2023	214
DashDobrofsky	194
dianaberrent	163
POTUS	160
ByDonkeys	124
RonJohnsonWI	124
RogerMarshallMD	113
thomasrp93	106

9/26/2022



## Trending Tweets September 2 – September 8

Tweets that are the most forwarded, either by retweet, reply, or quote:

- ❑ Remember when Ron Johnson said he wanted to “coax” seniors back into the workforce to “earn a few extra bucks”? And that was his solution to the labor shortage? We do. And this November, we’ll send him packing for the disrespect he has shown our seniors.
- ❑ GOP senator Ron Johnson says he wants to ‘coax’ seniors out of retirement so they can ‘earn a few extra bucks’ and ease the labor shortage <https://t.co/Digchx2Kn2>
- ❑ So, this Presidency, with the mid-40’s approval rating, added 9.5M jobs, brought unemployment to its lowest level in 50 years, got people vaccinated, invested in infrastructure, passed the largest-ever climate bill, and lowered drug costs for millions. PS - Al-Zawahiri is dead.
- ❑ Dr. Paul Offit, Children’s Hospital of Philadelphia renowned vaccine expert and FDA Vaccine Advisory Committee member, says only animal data is available right now on the new vaccine booster shots. Source: NBC10 Philadelphia <https://t.co/9ihu0pMgnz> <https://t.co/Wtb6fE7s7R>
- ❑ You are eligible for the new bivalent booster \*if\* you: - Completed your primary vaccine series (2 shots of Pfizer or Moderna or one shot of J&J) - Had your last booster (if any) over 2 months ago - Are age 12+ (for Pfizer) or age 18+ (for Moderna) Pass it on...
- ❑ Apparently some of the Q folks think vaccinated people will turn into zombies today. <https://t.co/ygWT5ABqB7>
- ❑ This Labor Day, remember, all 50 Democrat U.S. Senators voted for you to lose your job if you didn’t take the COVID vaccine.
- ❑ Updated Moderna & Pfizer boosters are: -effective against the original & new strains of COVID -up to 20x more effective against current dominant variants -appropriate 2+ months after your most recent dose & as soon as you’ve recovered from a case of COVID -available THIS WEEK
- ❑ NEWS: 32 young Canadian doctors “died suddenly” in the past 16 months while fully COVID-19 vaccinated! These doctors were actively practicing medicine & were healthy prior to taking illegally mandated COVID-19 Vaccines (2, 3 or 4 doses). credit to Dr. William Makis MD <https://t.co/eFXyfsCPk>

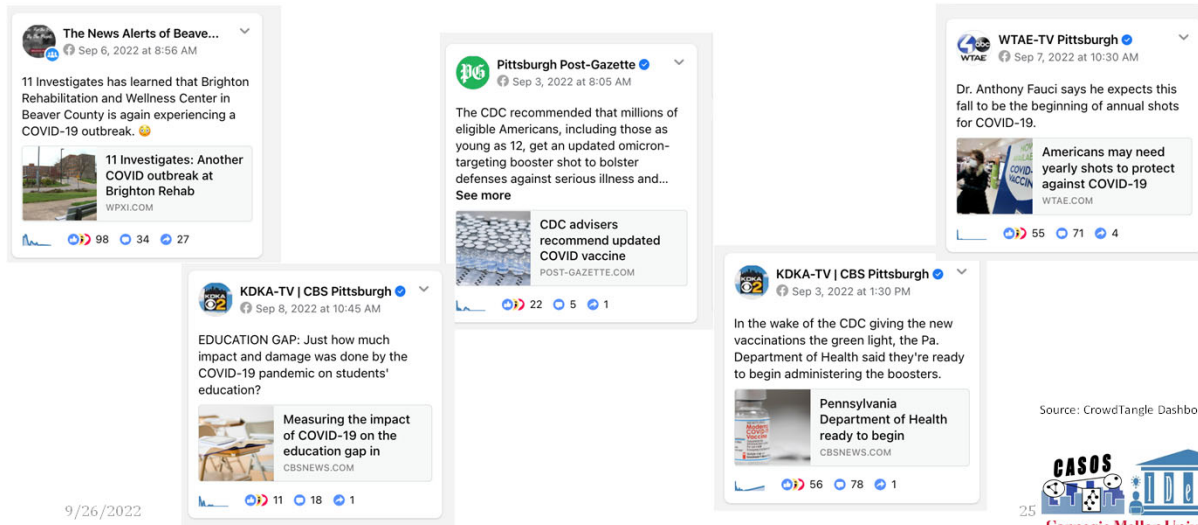
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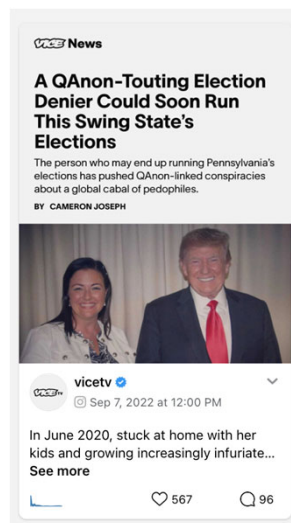




## Trending Posts on September 2 – September 8



## Trending Posts on Instagram September 2 – September 8

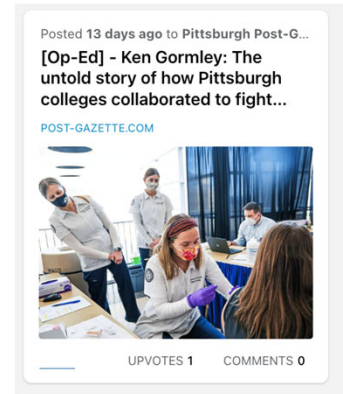
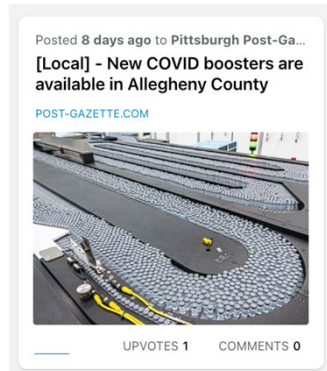
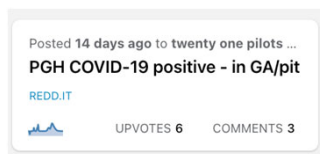
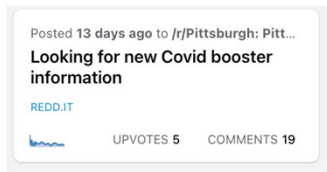


9/26/2022

Source: CrowdTangle Dashboard



## Trending Posts on Reddit September 2 – September 8



9/26/2022

Source: CrowdTangle Dashboard



## For More Information

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  - ❑ <http://www.casos.cs.cmu.edu/bios/carley/carley.html>
- ❑ IDEaS website - <https://www.cmu.edu/ideas-social-cybersecurity/>
- ❑ CASOS website - <http://www.casos.cs.cmu.edu/>
- ❑ Social Cybersecurity Working Group - <http://social-cybersecurity.org>
- ❑ Facebook: [@IDEasCMU](#)
- ❑ Twitter: [@IDEaSCMU](#)
- ❑ YouTube: [IDEaS Center](#)
- ❑ Ask to be on our Email-Distro Lists

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