PA Vaccine Conversations on Twitter

Dr. Iuliia Alieva, Dawn Robertson, Dr. Kathleen M. Carley
Vaccine Hesitancy Project Update based on September 9, 2022 - September 15, 2022

The CMU centers for:

Informed DEmocracy And Social cyber-security

Computational Analysis of Social and Organizational Systems



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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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Report Overview September 9 - September 15

- □ Boosters, Mandates, Masks are trending this week; Myocarditis/heart side effects, Vaccine Passports, Natural immunity are trending this week over last;
- □ Trending stories: westerngazette.ca/news/western-sued-over-vaccine-mandates/article 653439a2-2ee5-11ed-a2de-9300fba1001d.html Western sued over vaccine mandates; ti.me/3RyX7on COVID-19 Boosters Help Keep People Out of the Hospital, Study Finds; nbcnews.to/3qmwQhk Covid-19 cases among children increase as school starts; inquirer.com/health/monkeypox-vaccine-cases-transmission-philadelphia-new-jersey-pennsylvania-20220913.html Monkeypox cases slow down nationally and in Philly, but authorities warn that the outbreak isn't over;
- □ Popular anti-vax tweets: CDC Admits Post-Vaccine Myocarditis Concerns That Were Labeled Covid Misinformation Are Legit https://t.co/T3Yjm1tFy9; USA It's no longer a booster! it's an 'updated vaccine' and you will need it 8 weeks after your last shot. That's all I have to say on this subject. https://t.co/THAyaUNj80; AUSTRALIAN HEALTH OFFICIAL NOW ADMITS THE VACCINATED ARE NOW DYING FROM MYOCARDITIS. https://t.co/cUgHwFDdks; Two weeks before the pandemic started, the government (NIAID) and MODERNA signed a confidential agreement regarding COVID VACCINES, how did they know!!?? Anthony Fauci has to answer some questions! #vaccine #vaccineinjury #vaccinedeaths https://t.co/v8MAqN50sx

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Popular anti-vax stories sorted by the number of retweets

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

- dailysceptic.org/2022/09/12/covid-vaccine-destroys-natural-immunity-nejm-study-shows Covid Vaccine Destroys Natural Immunity, NEJM Study Shows;
- technocracy.news/peer-reviewed-study-94-of-vaccinated-patients-with-subsequent-health-issues-have-abnormal-blood. Peer-Reviewed Study: 94% Of Vaccinated Patients With Subsequent Health Issues Have Abnormal Blood;
- □ thefederalist.com/2022/09/09/cdc-admits-post-vaccine-myocarditis-concerns-that-were-labeled-covid-misinformation-are-legit CDC Admits Post-Vaccine Myocarditis Concerns That Were Labeled Covid Misinformation Are Legit;
- dailysceptic.org/2022/09/10/400-doctors-and-professionals-declare-international-medical-crisis-due-to-covid-vaccine-injuries-and-deaths 400 Doctors and Professionals Declare International Medical Crisis Due to Covid Vaccine Injuries and Deaths;
- $\begin{tabular}{ll} \hline \blacksquare & \underline{FightVaccinePassports.com} \\ \hline Fight Vaccine Passports; \\ \hline \end{tabular}$
- Unethical' and Up to 98 Times Worse Than the Disease: Top Scientists Publish Paradigm-shifting-study-about-covid-19-vaccines 4723122.html 'Unethical' and Up to 98 Times Worse Than the Disease: Top Scientists Publish Paradigm-Shifting Study About COVID-19 Boosters for Young Adults;
- dailysceptic.org/2022/09/14/cdc-admits-it-falsely-claimed-it-was-monitoring-vaccine-safety-but-still-wont-release-the-full-data_CDC Admits it Falsely Claimed it Was Monitoring Vaccine Safety But Still Won't Release the Full Data;
- expose-news.com/2022/09/11/government-publishes-figures-on-covid-vaccine-deaths Government publishes horrific figures on COVID Vaccine Deaths: 1 in 482 dead within a month, 1 in 246 dead within 60 days, & 1 in 73 dead by May 2022;
- utvitter.com/therealkeean/status/1568307864732848128 NEW: The UK has banned the COVID-19 vaccine for children under 12, saying it is not worth the risk for kids;
- dailycaller.com/2022/09/14/rand-paul-challenges-anthony-fauci-oversight-pharmaceutical-royalties-coronavirus-vaccine. We're Gonna Change The Rules': Rand Paul Threatens Oversight Wave Right To Fauci's Face;
- childrenshealthdefense.org/defender/israeli-health-officials-safety-problems-pfizer-covid-vaccine
 Leaked Video Suggests Israeli Health Officials Covered Up Serious Safety Problems With Pfizer COVID Vaccine

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Countering disinformation September 9 - September 15

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;
- □ A Study Recently Published in the New England Journal of Medicine Did Not Determine That ... Latest Tweet by AP Fact Check https://www.latestly.com/socially/social-viral/fact-check/a-study-recently-published-in-the-new-england-journal-of-medicine-did-not-determine-that-latest-tweet-by-ap-fact-check-4217381.html;
- □ UK children under 12 aren't 'banned' from having the Covid-19 vaccine https://fullfact.org/health/covid-vaccine-children-5-11/



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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.")

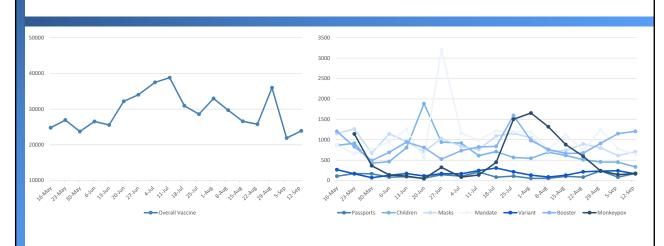
Measures for countering health disinformation

- 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.

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Trends (tweets per week in PA) September 9 - September 15



High Level View by City September 9 - September 15

	Total PA	Philade	lphia	Pittsb	urgh	Eri	e	Allentown/	Bethlehem	01	her
Conversation	Tweets	Tweets	%	Tweets	%	Tweets	%	Tweets	%	Tweets	%
Overall Vaccine	20701	9356	45.2%	7310	35.3%	203	1.0%	2567	12.4%	1265	6.1%
Vaccine Passports	175	89	1.0%	59	0.8%	2	1.0%	20	0.8%	5	0.4%
FDA Approval	13	6	0.1%	3	0.0%	1	0.5%	3	0.1%		
Boosters	942	412	4.4%	293	4.0%	12	5.9%	163	6.3%	62	4.9%
Employees	54	25	0.3%	15	0.2%	1	0.5%	11	0.4%	2	0.2%
"Experimental"	30	10	0.1%	9	0.1%			10	0.4%	1	0.1%
Children	257	147	1.6%	41	0.6%	3	1.5%	59	2.3%	7	0.6%
Myocarditis	386	253	2.7%	51	0.7%	2	1.0%	68	2.6%	12	0.9%
Heart	325	126	1.3%	83	1.1%	5	2.5%	91	3.5%	20	1.6%
Masks	701	325	3.5%	160	2.2%	10	4.9%	108	4.2%	98	7.7%
Thrombosis/VITT	6	4	0.0%	1	0.0%			1	0.0%		
Mandates	634	373	4.0%	112	1.5%	8	3.9%	114	4.4%	27	2.1%
Natural Immunity	173	108	1.2%	27	0.4%			31	1.2%	7	0.6%
Efficacy	42	21	0.2%	9	0.1%			9	0.4%	3	0.2%
Omicron	167	79	0.8%	41	0.6%	3	1.5%	27	1.1%	17	1.3%
Delta Variant	45	25	0.3%	3	0.0%			2	0.1%	15	1.2%
Race	489	209	2.2%	173	2.4%	6	3.0%	72	2.8%	29	2.3%
Ivermectin	152	51	0.5%	53	0.7%	3	1.5%	37	1.4%	8	0.6%
Military	144	96	1.0%	22	0.3%	1	0.5%	23	0.9%	2	0.2%
Breakthrough	14	9	0.1%	3	0.0%					2	0.2%

Conversation topics trending this week over last:

- Myocarditis/heart side effects
- Passports
- Natural immunity



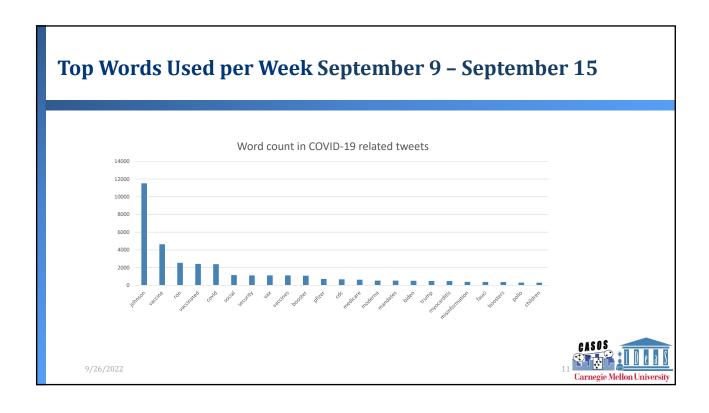
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High Level View by County September 9 - September 15

County	Allegheny	Beaver	Butler	Cambria	Fayette	Indiana	Somerset	Westmoreland
Overall Vaccine	7520	44	33	5	20	8	7	47
Vaccine Passports	59			1		2		
FDA	3							
Boosters	297	1	4	1		1		1
Employees	15							
"Experimental"	9							
Children	42							
Myocarditis	52							1
Heart	85							2
Masks	164		1		2			3
Thrombosis/VITT	1							
Mandates	112	1	1	1		3		1
Natural Immunity	27							
Efficacy	9							
Omicron	45		2					
Delta Variant	4		4					
Race	179							
Ivermectin	54							
Military	22							
Breakthrough	3							1

 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 Hashtags by County September 9 - September 15

☐ 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	Butler	Indiana
vaccine (112)	vaccine (1)	novaccinemandates (3)
vaccinedeaths (59)	vaccinedeaths (1)	novaccimepassports (1)
vaccineinjury (49)	vaccineinjury (1)	novaccinepassports (1)
covid19 (39)		
mrna (15)		



Top Hashtags by City September 9 - September 15

☐ 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 (104)	vaccine (12)	socialsecurityvoter (38)	vaccinedeaths (59)	vaccine (1)	vaccine (48)	vaccinedeaths (6)
covid19 (88)	vaccinedeaths (9)	vaccine (37)	vaccineinjury (49)	vaccinedeaths (1)	vaccinedeaths (34)	vaccineinjury (6)
vaccinedeaths (57)	vaccineinjury (8)	vaccineinjury (25)	covid19 (38)	vaccineinjury (1)	vaccineinjury (31)	novaccinemandates (3)
vaccineinjury (56)	vaccinesideeffects (4)	plandemic (17)	pfizer (10)	vaccinesideeffects (1)	pfizer (5)	deltavariant (1)
saveamerica (29)	donotjab (2)	vaccinedeath (16)	omicron (9)	vaccinestudies (1)	vaccinesideeffects (5)	fullyvaccinated (1)

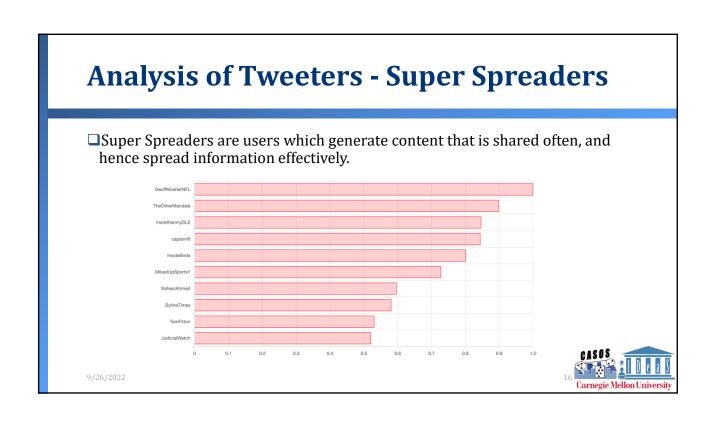
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Top URLs by County September 9 - September 15

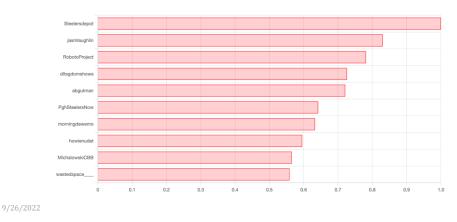
Allegheny	Beaver + Butler	Indiana	Moreland
dailysceptic.org/2022/09/12/covid-vaccine-destroys-natural-immunity-neim-study-shows Covid Vaccine Destroys Natural Immunity, NEJM Study Shows (77)	sharylattkisson.com/2022/09/read-ig-military-illegally-denying-religious-exemptions-for-covid-vaccine (READ) IG: Military illegally denying religious exemptions for Covid vaccine (1)	ottawacitizen.com/news/local- news/ottawa-doctor-refusing-to-co- operate-with-investigation-into-covid- medical-practices- college/wcm/39el4b9c-3785-4521- 9d76-97542f6499e/amp Ottawa doctor refusing to co-operate with investigation into COVID medical practices: College (1)	dailysceptic.org/2022/09/12/co vid-vaccine-destroys-natural- imnunity-neim-study-shows Covid Vaccine Destroys Natural Immunity, NEJM Study Shows (1)
westerngazette.ca/news/western-sued-over- vaccine-mandates/article 653439a2-2ee5-11ed- a2de-9300fba1001d.html Western sued over- vaccine mandates (75)	theepochtimes.com/unethical-and-up-to-98- times-worse-than-the-disease-top-scientists- publish-paradigm-shifting-study-about-covid- 19-vaccines 47/3122_html: Unethical and Up- to-98 Times Worse Than the Disease: Top- Scientists Publish Paradigm-Shifting Study About COVID-19 Boosters for Young Adults (1)	on COVID-19 Vaccine Safety Monitoring	fda-to-delay-the-covid-vaccine- to-hurt-trump It seems clear
thefederalist.com/2022/09/09/cdc-admits-post- vaccine-myocarditis-concerns-that-were-labeled- covid-misinformation-are-legit CDC Admits Post- Vaccine Myocarditis Concerns That Were Labeled Covid Misinformation Are Legit (35)	dailycaller.com/2022/09/14/rand-paul- challenges-anthony-lauci-oversight- pharmaceutical-royalties-coronayrus-vaccine 'We're Gonna Change The Rules': Rand Paul Threatens Oversight Wave Right To Fauci's Face (1)		
dailysceptic.org/2022/09/10/400-doctors-and- professionals-declare-international-medical-crisis- due-to-covid-vaccine-injuries-and-deaths 400 Doctors and Professionals Declare International Medical Crisis Due to Covid Vaccine Injuries and Deaths (30)	newsmax.com/newsfront/covid-19-vaccines- vaccine-mandates- economy/20/22/09/09/d/1086816. Several Large US Companies Quietly Rolling Back COVID-19 Vaccine Mandate (1)		
FightVaccinePassports.com Fight Vaccine Passports (27)	pubs.rsna.org/doi/10.1148/radiol.220814 Axillary Lymphadenopathy after Pfizer- BioNTech and Moderna COVID-19 Vaccination: MRI Evaluation (1)		14
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Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/Bethlehem	Other
nefederalist.com/2022/09/09/c dc-admits-post-vaccine- yocarditis-concerns-that-were- beled-covid-misinformation-are- legit CDC Admits Post-Vaccine dyocarditis Concerns That Were abeled Covid Misinformation Are Legit (181)	nbcnews.to/3gmwQhk Covid-19 cases among children increase as school starts (39)	inquirer.com/health/monkey pox-vaccine-cases- transmission-philadelphia- new-iersey-pennsylvania- 20220913.html Monkeypox cases slow down nationally and in Philly, but authorities warn that the outbreak isn't over (18)	dailysceptic.org/2022/09/1 2/covid-vaccine-destroys- natural-immunity-neim- study-shows Covid Vaccine Destroys Natural Immunity, NEJM Study Shows (77)	thecountersignal.com/uk-bans- vaccine-for-kids-under-12.UK ends vaccine for kids under 12 (2)	thefederalist.com/2022/09/0 9/cdc-admits-post-vaccine- myocardiis-concerns-that- were-labeled-covid- misinformation-are-legit CDC Admits Post-Vaccine Myocardiits Concerns That Were Labeled Covid Misinformation Are Legit (31)	dailysceptic.org/2022/09/12/ d-vaccine-destroys-natural immunity-neim-study-show Covid Vaccine Destroys Natu Immunity, NEJM Study Shows
nilysceptic.org/2022/09/12/cov id-vaccine-destroys-natural- immunity-neim-study-shows Jovid Vaccine Destroys Natural imunity, NEJM Study Shows (55)	dc-admits-post-vaccine- myocarditis-concerns-that-were- labeled-covid-misinformation- are-legit CDC Admits Post- Vaccine Myocarditis Concerns That Were Labeled Covid Misinformation Are Legit (17)	myocarditis-concerns-that- were-labeled-covid- misinformation-are-legit CDC Admits Post-Vaccine	westerngazette.ca/news/we stern-sued-over-vaccine- mandates/article 653439a2- 2ee5-11ed-a2de- 9300fba1001d.html Western sued over vaccine mandates (75)	twitter.com/therealkeean/statu s/1568307864732848128 NEW: The UK has banned the COVID- 19 vaccine for children under 12, saying it is not worth the risk for kids (2)	/covid-vaccine-destroys- natural-immunity-neim- study-shows Covid Vaccine	evanhospital.com/virus Coronavirus Update (5)
ti.me/3RvX7on COVID-19 doosters Help Keep People Out of the Hospital, Study Finds (53)	theepochtimes.com/unethical- and.up.to-98-times-worse-than- the-disease-top-scientists- publish-paradigm-shifting-study- about-covid-19- uneth-epocht-epocht-epocht- lurenth-epocht-epocht-epocht- lurenth-epocht-epocht-epocht-epocht- lurenth-epocht-epocht-epocht-epocht- lurenth-epocht-epocht-epocht-epocht-epocht- lurenth-epocht-epocht-epocht-epocht-epocht- lurenth-epocht-e	dailysceptic.org/2022/09/12 /covid-vaccine-destroys- natural-immunity-neim- study-shows Covid Vaccine Destroys Natural Immunity, NEJM Study Shows (12)	thefederalist.com/2022/09/ 09/cdc-admits-post-vaccine- myocarditis-concerns-that- were-labeled-covid- misinformation-are-legit CDC Admits Post-Vaccine Myocarditis Concerns That Were Labeled Covid Misinformation Are Legit (35)	academeblog.org/2022/09/09/ how-covid-19-vaccine- mandates-may-skew-campus- yiewpoints How COVID-19 Vaccine Mandates May Skew Campus Viewpoints (1)	dailysceptic.org/2022/09/10 /400-doctors-and- professionals-declare- international-medical-crisis- due-to-covid-vaccine-injuries- and-deaths 400 Doctors and Professionals Declare International Medical Crisis Due to Covid Vaccine Injuries and Deaths (14)	news.com/2022/09/11/gove ent-publishes-figures-on-covaccine-deaths Governmen publishes horrific figures COVID Vaccine Deaths: 1 in 4 dead within a month, 1 in 2 dead within 60 days, & 1 in dead by May 2022 (5)
echnocracy, news/peer-reviewed- tudy-94-01-vaccinated-patients- with subsequent health issues- have-ahormal-blood Peer- Reviewed Study: 94% 0f Vaccinated Patients With Subsequent Health Issues Have Abnormal Blood (38)	(13)	news.com/20/27/09/11/gove rnment-publishes-figures-on- covid-vaccine-deaths Government publishes horrific figures on COVID Vaccine Deaths: 1 in 482 dead within a month, 1 in 246 dead within 60 days, & 1 in 73 dead by May 2022 (7)	international-medical-crisis- due-to-covid-vaccine- injuries-and-deaths 400 Doctors and Professionals Declare International	bioprocessonline.com/doc/purs uit.of.a-universal-flu-vaccine- with-longitor-vaccines- diagnostics-left-fischer-UNIV2 Vaccine With Longhorn Vaccines & Diagnostics' Jeff Fischer (1)	theepochtimes.com/unethical and-un-to-98-times.worse- than-the-disease-top- scientists-publish-paradigm- shifting-study-about-covid- 19-vaccines 4723122.html Unethical and Up to 98 Disease 70 Scientists Publish Paradigm-Shifting Study About COVID-19 Boosters for Young Adults (12)	thefederalist.com/2022/09/0 c-admits-post-vaccine- myocardits-concerns-that-w labeled-covid-misinformation legit CDC Admits Post-Vacci Myocarditis-concerns That W Labeled Covid Misinformation Legit (5)
ailysceptic.org/2022/09/10/400 -doctors-and-professionals- declare-international-medical- crisis-due-to-covid-vaccine- njuries-and-deaths 400 Doctors and Professionals Declare international Medical Crisis Due to Covid Vaccine Injuries and Deaths (34)	dailysceptic.org/2022/09/14/cd cadmits-it-falsely-claimed-it- was-monitoring-vaccine-safety- but-still-wont-release-the-full- data CDC Admits it Falsely Claimed it Was Monitoring Vaccine Safety – But Still Won't Release the Full Data (6)	vinavprasadmdmph.substack. com/p/the-white-house needs-few-covid-advisors The White House Needs New COVID Advisors (7)	FightVaccinePassports.com Fight Vaccine Passports (27)	nder/israeli-health-officials- safety-problems-pfizer-covid-	news.com/2022/09/11/gove rnment-publishes-figures-on- covid-vaccine-death Government publishes horrific figures on COVID Vaccine Deaths: 1 in 482 dead within a month, 1 in 246 dead within 60 days, & 1 in 73 dead by May 2022 (10)	dailysceptic.org /2022/09/10 -doctors-and-professional declare-international-medic crisis-due-to-covid-vaccina inuries-and-deaths 400 Doct and Professionals Declare International Medical Crisis D Covid Vaccine Injuries and De (4)



Analysis of Tweeters - Super Friends

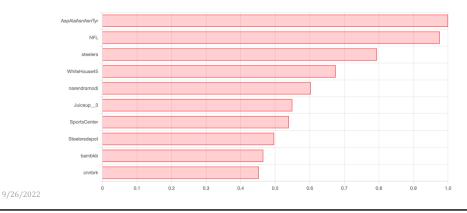
□Super Friends are users that exhibit frequent two-way communication, facilitating large or strong communication networks.





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.





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
CGJXXIII	230
steelers	222
pfizer	220
catturd2	182
RonJohnsonWI	171
POTUS	127
RepThomasMassie	98
Juiceup_3	93
Chatfield_43	89
bennyjohnson	86
TheOtherMandela	74
NFL	72
SenRonJohnson	70



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Trending Tweets September 9 - September 15

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

CDC Admits Post-Vaccine Myocarditis Concerns That Were Labeled Covid Misinformation Are Legit https://t.co/T3Yim1try9

President Biden slams Sen. Ron Johnson (R-WI): "You paid for your Social Security. Every single paycheck from the time you were a kid ... Then along comes Ron Johnson from Wisconsin ... He wants to put Social Security and Medicare on the chopping block every single year." https://t.co/Fg9C0m7wMW

USA - It's no longer a booster! it's an 'updated vaccine' and you will need it 8 weeks after your last shot. That's all I have to say on this subject. https://t.co/THAvaUNj8O

AUSTRALIAN HEALTH OFFICIAL NOW ADMITS THE VACCINATED ARE NOW DYING FROM MYOCARDITIS. https://t.co/cug1wFp0ks

Two weeks before the pandemic started, the government (NIAID) and MODERNA signed a confidential agreement regarding COVID VACCINES, how did they know!!?? Anthony Fauci has to answer some questions! #vaccine #vaccineinjury #vaccinedeaths https://t.co/v8MAqNSOsx

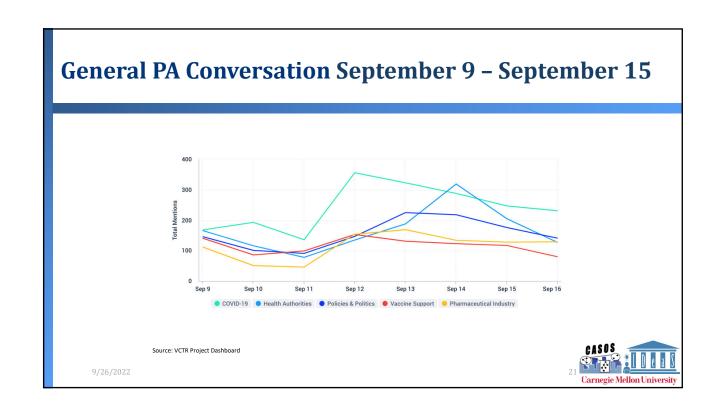
A new study in NEJM shows not only that Pfizer vaccine effectiveness becomes negative within five months but that the vaccines destroy any protection a person would have had from natural immunity. https://t.co/Hq9dhi2mYa

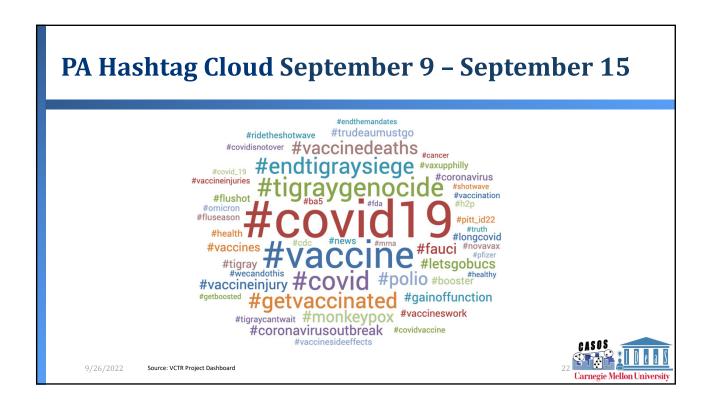
The "UPDATED" booster that's available at every Walgreens and CVS in the country was officially tested on ZERO people. Just 8 mice. I made a vax appointment in NYC and the pharmacist lied to my face: https://t.co/KCBHEDUCej

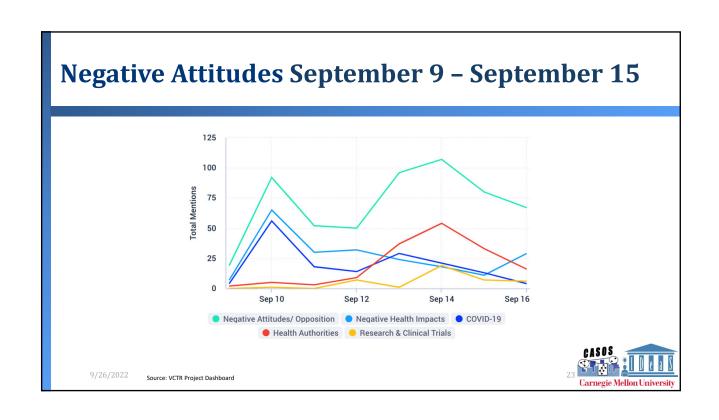
Why isn't EVERYONE talking about Ron Johnson wanting to PRIVATIZE Social Security? It would DESTROY the program. #SocialSecurityVoter

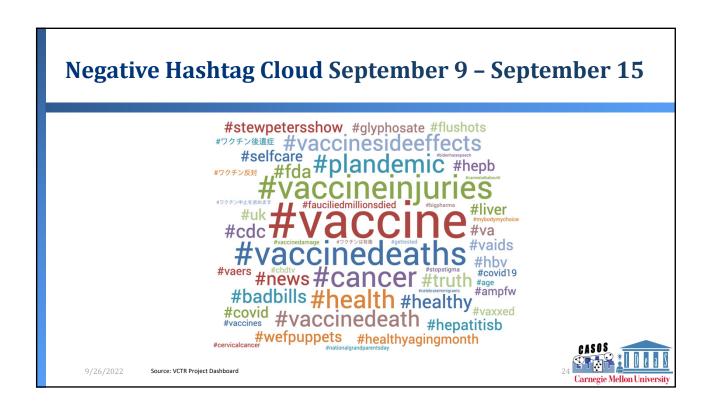
Rand Paul just falsely accused Dr. Fauci of denying "fundamental immunology." Fauci calmly responded by telling Rand "I wrote the chapter in the textbook of medicine on fundamental immunology." Dr. Fauci is a hero. Rand Paul — who is vaccinated — is a Russian propagandist.

BREAKING SCANDAL* IT'S NOW 100% CONFIRMED: TWO SEPARATE DOCTORS CLAIM 100+ MEMBERS OF CONFIRMED: TWO SEPARATE DOCTORS CLAIM 100+ MEMBERS OF CONFIRM





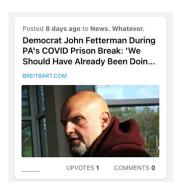








Trending Posts on Reddit September 9 - September 15



9/26/2022

Source: CrowdTangle Dashboard



For More Information

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 - http://www.casos.cs.cmu.edu/bios/carley/carley.html
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- ☐ CASOS website http://www.casos.cs.cmu.edu/
- ☐ Social Cybersecurity Working Group http://social-cybersecurity.org
- ☐ Facebook: @IDeasCMU
- ☐ Twitter: @IDeaSCMU
- ☐ YouTube: <u>IDeaS Center</u>
- ☐ Ask to be on our Email-Distro Lists

9/26/2022

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