

PA Vaccine Conversations on Twitter

Dr. Iuliia Alieva, Dawn Robertson, Dr. Kathleen M. Carley

Vaccine Hesitancy Project Update based on January 28, 2022 – February 3, 2022

The CMU centers for:

Informed DEMocracy And Social cyber-security

Computational Analysis of Social and Organizational Systems



Carnegie Mellon University



4/6/2022

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.

4/6/2022



2

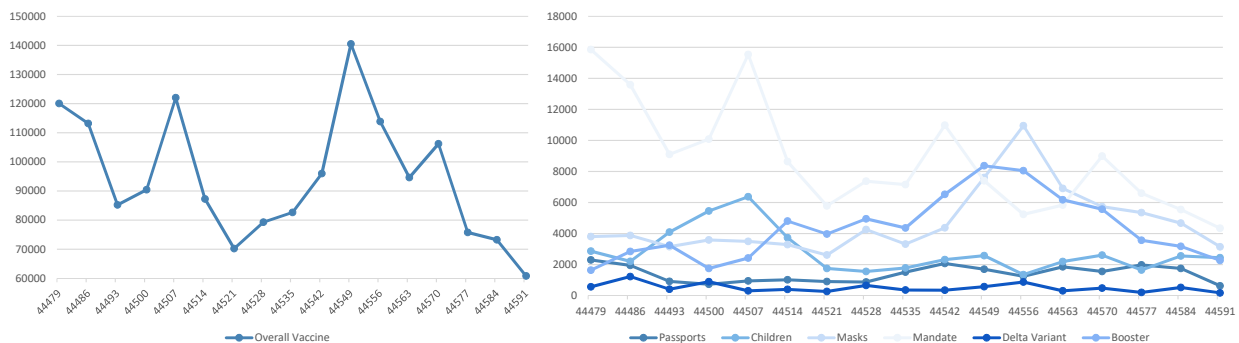
Report Overview January 28 – February 3

- ❑ This week's trending stories cover Mandates, Masks, Boosters, Omicron, FDA Approval, Vaccine as "experimental," Military;
- ❑ Trending stories: <http://thr.cm/gcBgAyb> Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan; <https://www.thedailybeast.com/kidney-patient-chad-carswell-rejects-transplant-to-stay-anti-vax> Kidney Patient Rejects Transplant to Stay Anti-Vax; <https://reut.rs/3KSzUup> Thousands stage peaceful protest in Ottawa against Canada's vaccine mandates; <https://gothamist.com/news/sarah-palin-dined-multiple-restaurants-after-getting-covid> Sarah Palin Dined At Multiple Restaurants After Getting COVID; <https://www.wsj.com/articles/the-high-cost-of-disparaging-natural-immunity-to-covid-vaccine-mandates-protests-fire-rehire-employment-11643214336> The High Cost of Disparaging Natural Immunity to Covid; <https://www.cbsnews.com/news/covid-vaccine-army-discharge/> U.S. Army will begin to discharge soldiers who refuse COVID-19 vaccine; <https://www.insider.com/long-island-nurses-arrested-millions-fake-covid-vaccine-card-scheme-2022-1> 2 New York nurses were arrested and accused of making \$1.5 million in a fake COVID-19 vaccine card scheme; <https://www.nytimes.com/2022/01/29/world/americas/canada-trucker-protest.html> Canadian Trucker Convoy Descends on Ottawa to Protest Vaccine Mandates;
- ❑ Anti-vax, disinformation, and vaccine hesitancy stories: <https://aaronisiri.substack.com/p/fda-asks-the-court-to-delay-first> FDA Asks the Court to Delay First 55,000 Page Production Until May and Pfizer Moves to Intervene in the Lawsuit; <https://summit.news/2022/01/28/marvel-actress-hounded-for-standing-up-against-vaccine-mandates/> Marvel Actress Hounded For Standing Up Against Vaccine Mandates; <https://www.bitchute.com/video/BaW6oejNlLY2/> STUDY REVEALS THE VACCINES MAY LEAD TO SURGE IN CANCER; <https://www.theblaze.com/op-ed/horowitz-whistleblowers-share-dod-medical-data-that-blows-vaccine-safety-debate-wide-open> Horowitz: Whistleblowers Share DOD medical data that blows vaccine safety debate wide open

4/6/2022



Trends (tweets per week) January 28 – February 3



4/6/2022



High Level View by City January 28 – February 3

	Total PA	Philadelphia		Pittsburgh		Erie		Allentown/Bethlehem		Other	
Conversation	Tweets	Tweets	%	Tweets	%	Tweets	%	Tweets	%	Tweets	%
Overall Vaccine	51007	27237	53.4%	14062	27.6%	554	1.1%	7039	13.8%	2115	4.1%
Vaccine Passports	629	348	1.3%	141	1.0%	18	3.2%	99	1.4%	23	1.1%
FDA Approval	627	264	1.0%	128	0.9%	11	2.0%	204	2.9%	20	0.9%
Boosters	1232	651	2.4%	330	2.3%	11	2.0%	182	2.6%	58	2.7%
Employees	627	402	1.5%	96	0.7%	8	1.4%	107	1.5%	14	0.7%
"Experimental"	253	168	0.6%	45	0.3%	1	0.2%	32	0.5%	7	0.3%
Children	1838	966	3.5%	501	3.6%	25	4.5%	268	3.8%	78	3.7%
Myocarditis	378	254	0.9%	58	0.4%	4	0.7%	54	0.8%	8	0.4%
Heart	1029	616	2.3%	213	1.5%	14	2.5%	152	2.2%	34	1.6%
Masks	3118	1612	5.9%	830	5.9%	47	8.5%	381	5.4%	248	11.7%
Thrombosis/VITT	48	21	0.1%	7	0.0%	0	0.0%	10	0.1%	10	0.5%
Mandates	4254	2116	7.8%	1110	7.9%	58	10.5%	787	11.2%	183	8.7%
Natural Immunity	1367	1091	4.0%	148	1.1%	8	1.4%	104	1.5%	16	0.8%
Efficacy	205	97	0.4%	38	0.3%	1	0.2%	59	0.8%	10	0.5%
Omicron	834	470	1.7%	158	1.1%	7	1.3%	144	2.0%	55	2.6%
Delta Variant	166	85	0.3%	23	0.2%	3	0.5%	27	0.4%	28	1.3%
Race	1175	685	2.5%	269	1.9%	13	2.3%	173	2.5%	35	1.7%
Ivermectin	213	82	0.3%	76	0.5%	7	1.3%	32	0.5%	16	0.8%
Military	293	185	0.7%	61	0.4%	0	0.0%	41	0.6%	6	0.3%
Breakthrough	82	44	0.2%	17	0.1%	3	0.5%	8	0.1%	10	0.5%

4/6/2022

- Trending conversations this week:
 - FDA Approval
 - Vaccine as "experimental"
 - Military



High Level View by County January 28 – February 3

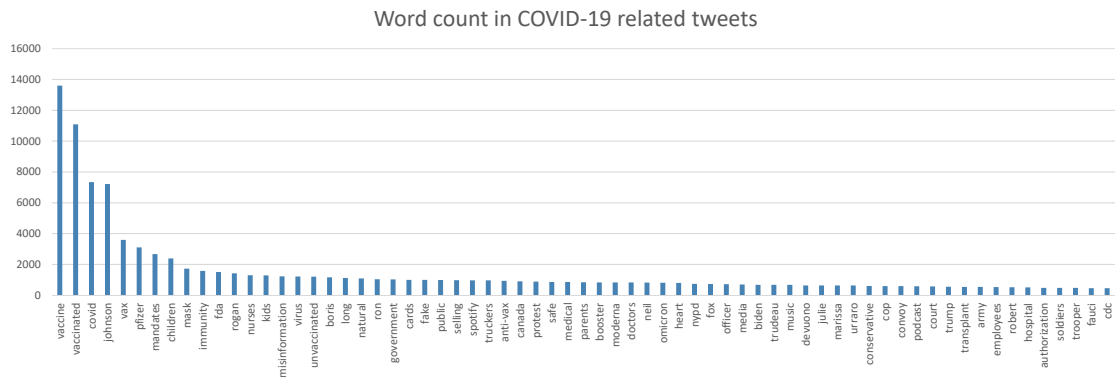
County	Allegheny	Beaver	Butler	Cambria	Fayette	Indiana	Somerset	Westmoreland
Overall Vaccine	14398	25	48	7	32	14	0	62
Vaccine Passports	144	1	1					
FDA	133					1		
Boosters	340	1	3		4			
Employees	96							3
"Experimental"	48							
Children	522	3	4		1	1		4
Myocarditis	58	1						
Heart	223	1		1				
Masks	880	4	10	3	3	1		14
Thrombosis/VITT	7							
Mandates	1139	7			6			7
Natural Immunity	148							
Efficacy	38	1						
Omicron	161							1
Delta Variant	23							1
Race	279	1						
Ivermectin	80				1			
Military	61				1			
Breakthrough	17							

4/6/2022

- 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 January 28 – February 3



4/6/2022



Top Hashtags by County January 28 – February 3

- ☐ 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	Beaver + Butler	Cambria	Fayette	Indiana	West Moreland
COVID19 (165)	covidvaccine (4)	tucker (1)	covid19 (2)	allin (1)	pittsburgh (2)
VAIDS (135)	cancelspotify (3)	tuckercarlson (1)	covid19vaccine (1)	allin22 (1)	conspiracytheory (1)
Steelers (117)	covid19 (3)		saveamerica (1)	iupnsd22 (1)	covid19 (1)
TruckersConvoy2022 (107)	vaccinemandate (2)		spotifydeleted (1)	talonsup (1)	covidisover (1)
vaccine (86)	neilyoung (2)		trumprally (1)		joerogan (1)

4/6/2022



Top Hashtags by City January 28 – February 3

- ❑ 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
covid19 (253)	covid19 (71)	covid19 (71)	covid19 (163)	boycott (5)	covid19 (62)	covid19 (44)
blackhistorymonth (141)	blackhistorymonth (16)	truckersforfreedom2022 (69)	vaids (135)	freedomconvoy2022 (5)	pfizer (24)	vaccine (25)
vaccine (121)	sarahpalin (16)	cdnpoli (67)	steelers (114)	demvoice1 (4)	vaccine (22)	pfizer (12)
neilyoung (62)	vaccine (9)	johnsonout9 (48)	truckersconvoy2022 (107)	truckersforfreedom2022 (4)	soulslosttocovid (15)	fauci (9)
pfizer (52)	truckersforfreedom2022 (7)	pmqs (42)	vaccine (84)	covid19 (3)	truckersforfreedom2022 (15)	steelers (8)

4/6/2022



Top URLs by County January 28 – February 3

Allegheny	Butler + Beaver	Cambria	Indiana + Somerset	Fayette	West Moreland
https://twitter.com/HelenKennedy/status/1487271294005620743 "Remember that Washington State cop who became a right wing hero and was lionized on Fox when he taped himself telling the gov to "kiss my ass" and resigned instead of getting vaccinated? He just died of Covid." (114)	https://aaronstiri.substack.com/p/fda-asks-the-court-to-delay-first-fda-asks-the-court-to-delay-first-55,000-Page-Production-Until-May-and-Pfizer-Moves-to-Intervene-in-the-Lawsuit-(1)	http://thr.cm/gcBgAyh Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (1)	https://www.thepocohontimes.com/pfizer-moves-to-intervene-in-high-profile-case-dealing-with-covid-19-vaccine-safety-data-4238676.html?utm_source=ref_shar&utm_campaign=etw&rs=SHRMHQJF&Pfizer-Moves-to-Intervene-in-High-Profile-Case-Dealing-With-COVID-19-Vaccine-Safety-Data-(2)	https://reut.rs/3KSzUup Thousands stage peaceful protest in Ottawa against Canada's vaccine mandates (2)	https://cbsn.ws/3uoP7xI Pfizer asks FDA to allow COVID-19 vaccine for kids under 5 (1)
http://thr.cm/gcBgAyh Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (90)	https://summitnews/2022/01/28/marvel-actress-hounded-for-standing-up-against-vaccine-mandates/ Marvel Actress Hounded For Standing Up Against Vaccine Mandates (1)		https://bit.ly/3rSfCsy Tortorella adds Zack Johnson as co-defensive coordinator (1)	https://bit.ly/3gavi4P Canada Rally Against Vaccine Mandates Blocks Ottawa as Trump Praises Protest (1)	https://www.cnn.com/2022/01/20/europe/czech-singer-death-deliberate-covid-infection-intl/index.html Czech anti-coronavirus vaccine folk singer dies after deliberately getting infected with Covid-19, son says (1)
https://www.thedailybeast.com/kidney-patient-chad-carswell-rejects-transplant-to-stay-anti-vax Kidney Patient Rejects Transplant to Stay Anti-Vax (86)	https://www.bitchute.com/video/6aW6oeNtLY2/ STUDY REVEALS THE VACCINES MAY LEAD TO SURGE IN CANCER (1)		https://www.washingtonpost.com/health/2022/01/31/coronavirus-vaccine-children-under-5/ Pfizer-BioNTech coronavirus vaccine for children under 5 could be available by the end of February, people with knowledge say (1)	https://covid.cdc.gov/covid-data-tracker/#covidnet-hospitalizations-vaccination Rates of laboratory-confirmed COVID-19 hospitalizations by vaccination status (1)	https://pittsburgh.cbslocal.com/2022/02/01/pfizer-expected-to-ask-fda-to-authorize-its-covid-19-vaccine-for-kids-under-5/ Pfizer Expected To Ask FDA To Authorize Its COVID-19 Vaccine For Kids Under 5 (1)
https://reut.rs/3KSzUup Thousands stage peaceful protest in Ottawa against Canada's vaccine mandates (60)	https://www.nytimes.com/2022/01/21/us/politics/children-covid-vaccine.html Pfizer is expected to ask the F.D.A. to authorize its Covid vaccine for children under 5. (1)			https://gothamist.com/news/sarah-palin-dined-multiple-restaurants-after-getting-covid Sarah Palin Dined At Multiple Restaurants After Getting COVID (1)	https://thehill.com/homenews/state-watch/592184-denver-drooping-mask-vaccine-mandates-this-week?amp Denver dropping mask, vaccine mandates this week (1)
https://gothamist.com/news/sarah-palin-dined-multiple-restaurants-after-getting-covid Sarah Palin Dined At Multiple Restaurants After Getting COVID (40)	https://www.washingtonpost.com/health/2022/01/28/news-omicron-pandemic/America's-split-screen-pandemic: Many families resume their lives even as hospitals are overwhelmed (1)			https://www.theblaze.com/op-ed/horowitz-whistleblowers-share-dod-medical-data-that-blows-vaccine-safety-debate-wide-open Horowitz: Whistleblowers share DOD medical data that blows vaccine safety debate wide open (1)	https://variety.com/2022/digital/news/dwayne-johnson-joe-rogan-spotify-apology-1235168865/amp/ Dwayne Johnson Calls Joe Rogan's Apology 'Great Stuff': 'Look Forward' to Being on the Podcast (1)

4/6/2022



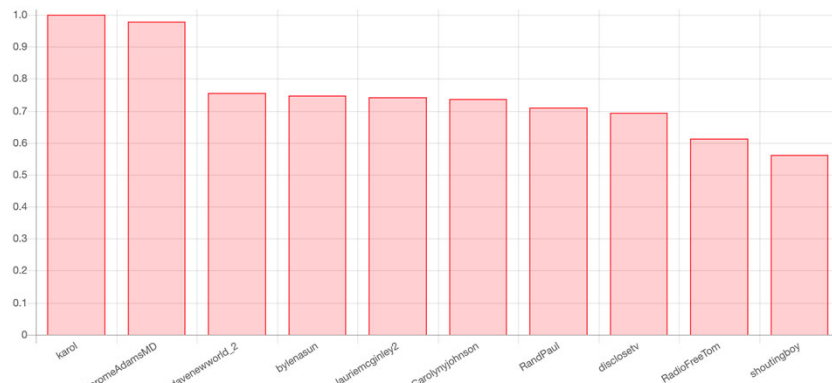
Top URLs by City January 28 – February 3

Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/ Bethlehem	Other
https://www.wsj.com/articles/the-high-cost-of-disparaging-natural-immunity-to-covid-vaccine-mandates-protests-fire-rehire-employment-11643214336 The High Cost of Disparaging Natural Immunity to Covid (469)	https://bit.ly/3lImPC4 Risk Factors for Severe COVID-19 in Children (32)	https://www.nationalreview.com/2022/01/alex-berensons-dangerous-covid-vaccine-claims-on-tucker-carlson-tonight/?hpid=hp-top-story-table%3Ahomepage%2Ft-2978&utm_campaign=trueanthem&utm_medium=social&utm_source=twitter Alex Berenson's Dangerous Covid-Vaccine Claims on Tucker Carlson Tonight (19)	https://twitter.com/HelenKennedy/status/1487271294005620743 Remember that Washington State cop who became a right wing hero and was lionized on Fox when he taped himself telling the gov to "kiss my ass" and resigned instead of getting vaccinated? He just died of Covid (114)	https://twitter.com/amesha/status/1486173361206145027 "We urge public health and school officials to educate communities on one-way masking, emphasizing personal choice regarding self-protection and supporting those who choose to remain masked." (6)	https://trib.al/qPlotJ9 Justin Trudeau moved to secret location during Canada vax protests: report (29)	https://thr.cm/jcB8Ayb Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (12)
https://www.theblaze.com/op-ed/horowitz-whistleblowers-share-dod-medical-data-that-blows-vaccine-safety-debate-wide-open Horowitz: Whistleblowers share DOD medical data that blows vaccine safety debate wide open (263)	https://bit.ly/2WqjYVW COVID-19 Vaccine Equity (13)	https://thr.cm/jcB8Ayb Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (14)	https://thr.cm/jcB8Ayb Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (87)	https://thr.cm/jcB8Ayb Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (4)	https://childrenshealthdefense.org/defender/pfizer-fda-delay-release-covid-vaccine-safety-data/ Pfizer, FDA Ask Court to Further Delay Release of COVID Vaccine Safety Data (27)	https://aaronisri.substack.com/p/fda-asks-the-court-to-delay-first FDA Asks the Court to Delay First 55,000 Page Production Until May and Pfizer Moves to Intervene in the Lawsuit (9)
https://bariweiss.substack.com/p/last-year-i-was-a-bryn-mawr-girl Last Year, I Was a Bryn Mawr Girl. Now I'm at Hillsdale. (135)	https://bariweiss.substack.com/p/last-year-i-was-a-bryn-mawr-girl Last Year, I Was a Bryn Mawr Girl. Now I'm at Hillsdale. (12)	https://www.mediamatters.org/coronavirus-covid-19/fox-news-wanted-viewers-hear-anti-vax-troopers-story-until-he-died-covid Fox News wanted viewers to hear an anti-vax trooper's story – until he died of COVID (13)	https://www.thedailybeast.com/kidney-patient-chad-carswell-rejects-transplant-to-stay-anti-vax Kidney Patient Rejects Transplant to Stay Anti-Vax (86)	https://abcn.ws/3KXrOAP COVID-19 live updates: US deaths at highest point in nearly 1 year (4)	https://aaronisri.substack.com/p/fda-asks-the-court-to-delay-first FDA Asks the Court to Delay First 55,000 Page Production Until May and Pfizer Moves to Intervene in the Lawsuit (23)	https://covid.cdc.gov/covid-data-tracker/#covidnet-hospitalizations-vaccination Rates of laboratory-confirmed COVID-19 hospitalizations by vaccination status (8)
https://thr.cm/jcB8Ayb Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (125)	https://www.theblaze.com/op-ed/horowitz-whistleblowers-share-dod-medical-data-that-blows-vaccine-safety-debate-wide-open Horowitz: Whistleblowers share DOD medical data that blows vaccine safety debate wide open (11)	https://www.theblaze.com/op-ed/horowitz-whistleblowers-share-dod-medical-data-that-blows-vaccine-safety-debate-wide-open Horowitz: Whistleblowers share DOD medical data that blows vaccine safety debate wide open (13)	https://reut.rs/3KSzUup Thousands stage peaceful protest in Ottawa against Canada's vaccine mandates (59)	https://aaronisri.substack.com/p/fda-asks-the-court-to-delay-first FDA Asks the Court to Delay First 55,000 Page Production Until May and Pfizer Moves to Intervene in the Lawsuit (2)	https://reut.rs/3KSzUup Thousands stage peaceful protest in Ottawa against Canada's vaccine mandates (23)	https://childrenshealthdefense.org/defender/pfizer-fda-delay-release-covid-vaccine-safety-data/ Pfizer, FDA Ask Court to Further Delay Release of COVID Vaccine Safety Data (7)
https://www.thedailybeast.com/kidney-patient-chad-carswell-rejects-transplant-to-stay-anti-vax Kidney Patient Rejects Transplant to Stay Anti-Vax (66)	https://thr.cm/jcB8Ayb Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (10)	https://www.thedailybeast.com/marvel-actress-evangeline-lilly-attended-dc-anti-vax-protest Marvel Actress Evangeline Lilly Attended D.C. Anti-Vax Protest (12)	https://gothamist.com/news/sarah-palin-dined-multiple-restaurants-after-getting-covid Sarah Palin Dined At Multiple Restaurants After Getting COVID (40)	https://www.reuters.com/legal/government/pfizer-pushes-intervene-lawsuit-seeking-covid-vaccine-information-fda-2022-01-26/ Pfizer pushes to intervene in lawsuit seeking COVID vaccine information from FDA (3)	https://thr.cm/jcB8Ayb Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (22)	https://gothamist.com/news/sarah-palin-dined-multiple-restaurants-after-getting-covid Sarah Palin Dined At Multiple Restaurants After Getting COVID (6)

4/6/2022

Analysis of Tweeters - Super Spreaders

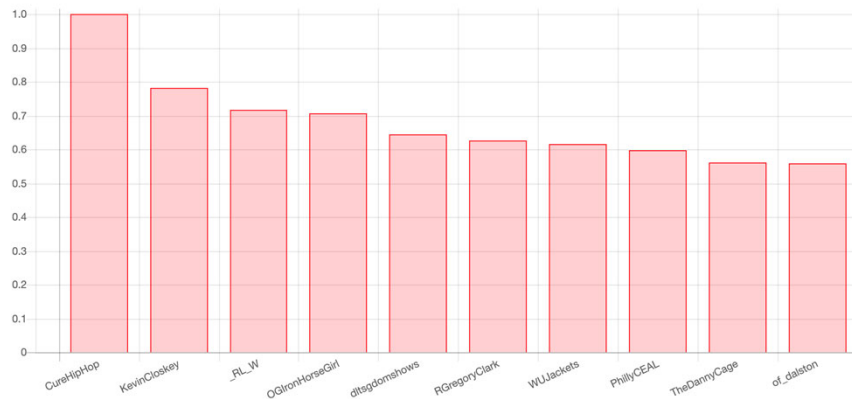
- ☐ Super Spreaders are users which generate content that is shared often, and hence spread information effectively.



4/6/2022

Analysis of Tweeters - Super Friends

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

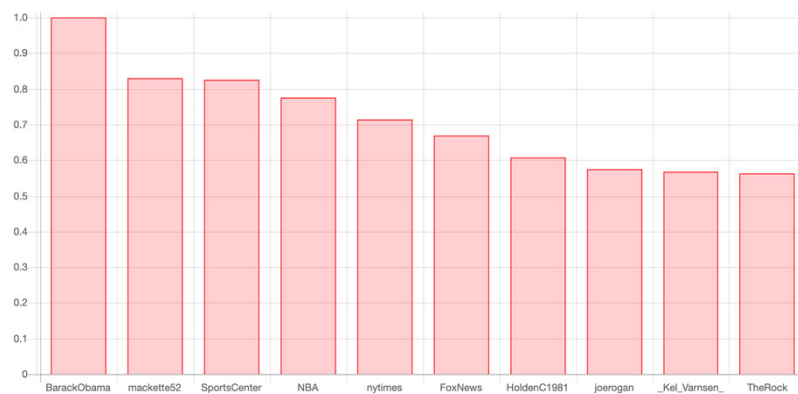


4/6/2022



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.



4/6/2022



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
THEEBlackleftie	412
joerogan[+]	386
Spotify	312
MartyMakary[+]	248
CDCgov[+]	200
chrislhayes[+]	193
FoxNews[+][*]	185
US_FDA[+]	179
pfizer[+]	178
OttawaHealth	177

4/6/2022



Trending Tweets January 28 – February 3

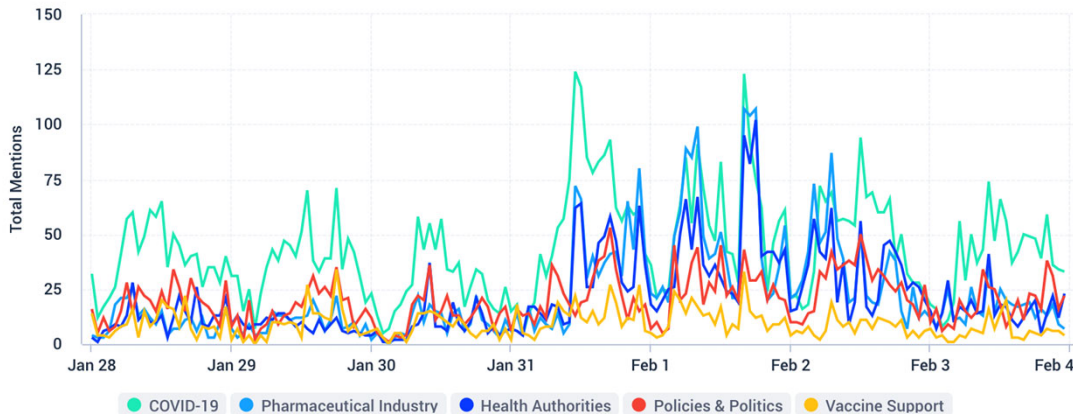
Tweets that are the most forwarded, either by retweet, reply, or quote:

- ❑ 2 nurses on Long Island, Julie DeVuono and Marissa Urraro, were caught selling fake vaccine cards and raked in over \$1.5mil. DeVuono's husband is an NYPD officer. <https://t.co/siwjsUvEml>
- ❑ Time to rehire unvaxxed doctors and nurses who have natural immunity to COVID! <https://t.co/o4Tpmj41YB>
- ❑ Sen. Ron Johnson asked about reducing child care costs: "Well, people decide to have families and become parents. That's something they need to consider when they make that choice. I've never really felt it was society's responsibility to take care of other people's children." <https://t.co/HyJr4iTwUG>
- ❑ Spotify is removing Neil Young's catalogue from its service after the artist published —then took down — an open letter with an ultimatum: deal with the vaccine misinformation coming from Joe Rogan's podcast, or lose his music More: <https://t.co/wtyE881A7j> <https://t.co/J5JTEmnY3>
- ❑ Give me thumbs up and retweet if you're vaccinated and still wearing a mask in public. I want EVERYONE to follow you.
- ❑ I appreciate everyone's support. Since I have a bit of a platform I'll use it while it lasts: Get vaccinated. Wear your mask on the bus. Have patience, show kindness, be nice to people.
- ❑ Lonnie Johnson, the man who created the "Super Soaker" was awarded \$72.9M in a Hasbro Settlement for unpaid royalties. The super soaker is the worlds best selling toy. #Blackhistorymonth <https://t.co/yTqVAKTJBQ>
- ❑ JUST IN - Pfizer-BioNTech is expected to request "emergency use authorization" for the COVID vaccine for children 6 months to 5 years old on Tuesday, WaPo reports.
- ❑ Robert LaMay, the anti-vaccine state trooper who recently died of COVID, was praised as "a celebrity" by Fox's Laura Ingraham on 10/19/21. She also said she "hoped" they'd awoken "a sleeping giant." (LaMay also used that term previously in the interview.) <https://t.co/MBYFyw4uvM> <https://t.co/UX5R8JaqLp>
- ❑ Last night, I learned that I have been exposed to COVID-19. My rapid test result was negative. I am following @OttawaHealth rules and isolating for five days. I feel fine and will be working from home. Stay safe, everyone – and please get vaccinated.

4/6/2022



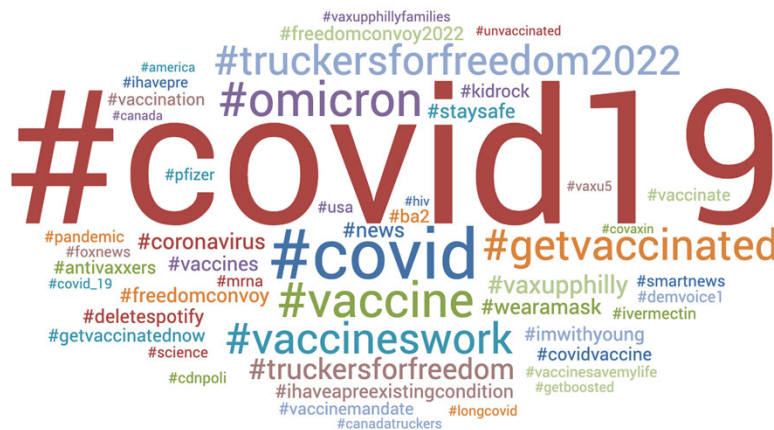
General PA Conversation January 28 – February 3



4/6/2022



PA Hashtag Cloud January 28 – February 3



4/6/2022



Trending Posts on Facebook January 28 – February 3

Robert F. Kennedy Jr. spoke at the rally, sparking outrage for comparing vaccination requirements to the Holocaust.

Marvel star Evangeline Lilly attended D.C. rally against COVID vaccines and

1.1K 411 36

The United States Army will begin separating soldiers from service who refuse to get COVID-19 vaccines.

U.S. Army will begin to discharge soldiers who refuse COVID-19 vaccine

489 368 57

"It's not a smell I've ever smelled before. It just smells so bad. I don't know how to describe it."

"It just smells so bad": Teen suffers from distorted smell months after COVID-19

530 390 166

Prosecutors allege that the women charged \$220 per forged card for adults and \$85 per child.

Coronavirus: 2 NY nurses accused of netting \$1.5M in fake COVID-19 vaccination

452 218 64

Children under the age of 5 remain the only population segment currently ineligible for the COVID-19 vaccine.

Report: Initial Pfizer COVID-19 vaccine doses for children under 5 could be

361 283 35

The U.S. Food and Drug Administration characterized the recall as a Class 1, the most serious type issued.

Coronavirus: False result fears prompt recall of nearly 300K at-home

658 186 382

He was put into a medically-induced coma before Thanksgiving, and he just woke up a couple of weeks ago.

36-year-old COVID-19 survivor wakes from a coma with message for others

645 447 98

Jefferson Hospital in Pleasant Hills received some of Allegheny County's first covid patients. The first death recorded in the county happened here. The Tribune-Review spent, over two Thursdays, a 12-hour shift...

Holding onto hope inside a covid ICU: 'It's like working in a war zone'

433 162 206

The move comes after Neil Young, Joni Mitchell and Nils Lofgren pulled their music from Spotify this week.

Spotify adding content advisory warnings to podcasts that discuss

361 166 10

Kid Rock to cancel tour stops at venues with COVID vaccine mandates

Kid Rock to cancel tour stops at venues with COVID vaccine mandates | 105.9

449 90 12

The Chinese Communist Party unleashed COVID on the world and is committing genocide against the Uyghurs. I will not watch one second of the Olympics. They are an enemy of the United States & it's high time many of our leaders understood that.

1.0K 90 100

Jason Wilson has had kidney failure since he was 10 years old.

South Carolina man removed from organ transplant list for not

662 548 102

21 Carnegie Mellon University

Trending Posts on Instagram January 28 – February 3

COVID-19 cases and hospitalizations continue to plummet across the region, though infection rates remain high, even as the omicron wave recedes. Philadelphia is averaging 804 new cases a day over the past seven days, a 70% decline compared to two weeks ago. New cases are also down nearly 70% in New Jersey, where the state is averaging just more than 6,000 cases a day. For more data visualizations, and all the latest coronavirus news, visit the link in our bio. by John Ducheskie / Staff

707 54

Jefferson Hospital in Pleasant Hills received some of Allegheny County's first covid patients. The first death recorded in the county happened here. The Tribune-Review spent, over two Thursdays, a 12-hour shift with the ICU nurses at Jefferson. In spare moments, the nurses talked about the anxiety, exhaustion and nightmares brought on by the pandemic. Some feel haunted. Registered nurse Kristy Lewis (pictured) said she still sees the faces of each person she has watched die during the pandemic. She was there for that first death. She remains on the front line as the death toll continues to rise here and across the country. "I am usually the last person that they see. I am usually the last person to hold their hand while people die," Lewis said. "I have to be not only their nurse, but I have to be their family, their support person, their whatever they need me to be at that moment." It's a position she never expected to be in. "I have never been as emotionally vulnerable," she said, "as I have been with these patients." On

Hershey's chocolate bars in Chicago, IL, on July 16, 2014. (Scott Olson/Getty Images)

BUSINESSES IN COVID-19 EXCLUSIVE: Hershey Fires Unvaccinated Employees

Offers payment to sign exiting agreement

melissamurphy Jan 31, 2022 at 10:12 PM

I saw this coming. Get terminated and offered a package equaling two months salary in return to never litigate for wrongful termination, coercion, harassment, bullying, and discrimination. Here's a tip, don't take it and don't sign your rights to litigate away. The Hershey Company has begun firing office workers who did not get vaccinated against COVID-19. On the way out the door, Hershey is asking employees to sign a nine-page confidentiality and release agreement that would remove their rights to sue the company or talk about their experience. Although their signature comes with a "special separation payment," many have not signed the agreement and won't get the money. Employees say the payment was determined by an algorithm and for some, amounted to just over two months' pay. By most accounts, working at Hershey was a great job. Employees at the Hershey, Pennsylvania headquarters and at offices in other states report higher than average wages and levels of candy placed around the offices for snacking. During holidays, employees would get a big bag of treats to take home, although that practice stopped.

PA Coronavirus Vaccination Rate 94.1% First Dose (Pennsylvania up 1%)

14th day of the year

keystonnewsroom Feb 3, 2022 at 1:56 PM

There's good news and bad news on the COVID-19 front in Pennsylvania this week. The good: New cases of COVID-19 (98,545) were down 34% over the last week, and new hospital admissions due to COVID-19 (4,663) were down 20%. The bad: following a slight dip last week, Pennsylvania experienced a whopping 39% uptick in newly reported deaths from COVID-19 (1,164). We've seen countless stories about the high rate of death among the unvaccinated, and how the unvaccinated continue to overwhelm hospitals. What else is there to say at this point regarding the protection that being fully vaccinated and boosted against COVID-19 provides? The statistics from the PA Department of Health bear repeating: Over the last year in Pennsylvania: 78% of reported COVID-19 cases were in unvaccinated or not fully vaccinated people. 85% of reported hospitalizations with COVID-19 as the primary diagnosis/case of admission were in unvaccinated or not fully vaccinated people. 84% of COVID-19-related deaths were in unvaccinated or not fully vaccinated people. Vaccinated people had

Philadelphia police are investigating the suspected theft of 5,000 COVID-19 vaccination cards at Pennsylvania Hospital.

COVID-19 Vaccination

kywnewsradio Feb 4, 2022 at 9:54 AM

A hospital senior director at

Crime News Detroit Anthony Fauci Loses Trust With Americans as Confidence in CDC Plummets—Poll

Conservative media attacks on the country's top infectious diseases expert, Dr. Anthony... See more

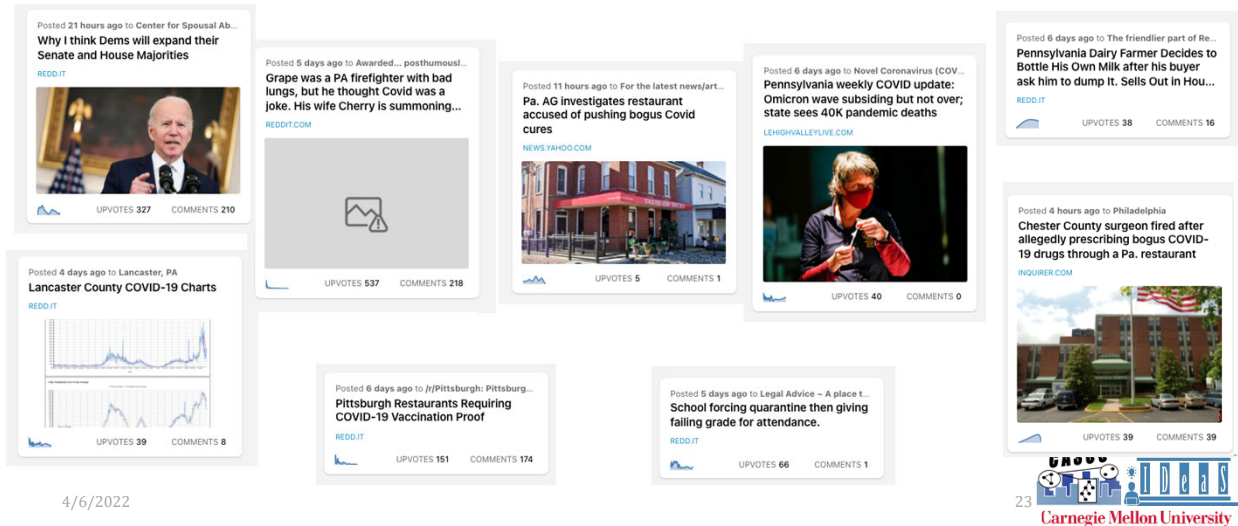
crimenewsdetroit Jan 31, 2022 at 2:10 AM

28 12

4/6/2022

22 Carnegie Mellon University

Trending Posts on Reddit January 28 – February 3



For More Information

- ❑ Director Kathleen M. Carley - kathleen.carley@cs.cmu.edu
 - ❑ <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](https://www.facebook.com/IDEasCMU)
- ❑ Twitter: [@IDeaSCMU](https://twitter.com/IDeaSCMU)
- ❑ YouTube: [IDeaS Center](https://www.youtube.com/IDeaS_Center)
- ❑ Ask to be on our Email-Distro Lists

4/6/2022

Copyright © 2021 Kathleen M. Carley

