### **PA Vaccine Conversations on Twitter**

Dr. Iuliia Alieva, Dawn Robertson, Dr. Kathleen M. Carley Vaccine Hesitancy Project Update based on June 24, 2022 - June 30, 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 June 24 - June 30

- □ COVID-19 vaccine for children, mandates, masks and military are trending this week, many tweets compare the new abortion ruling and vaccine mandates in a political context;
- Trending stories: jsonline.com/story/news/politics/2022/06/23/ron-johnson-now-says-he-coordinated-handoff-false-elector-slates-pence/7715502001 Ron Johnson now says he helped coordinate effort to pass false elector slates to Pence, but his new explanation drew a quick rebuke; <a href="mailto:the-sun.com/health/5615177/first-outbreak-highly-infectious-polio-uk-signs">the-sun.com/health/5615177/first-outbreak-highly-infectious-polio-uk-signs</a> VIRAL FEARS First outbreak of highly infectious polio detected in UK since 1984 the 6 signs to know; <a href="https://www.net.com/article/pittsburgh-threatening-to-fire-police-officers-who-have-not-been-vaccinated-against-covid-19/40458602">tohe-article/pittsburgh-threatening-to-fire-police-officers-who-have-not-been-vaccinated-against-covid-19/40458602</a> Pittsburgh threatening to fire police officers who have not been vaccinated against COVID-19; <a href="mailto:redstate.com/bobhoge/2022/06/27/14000-army-guard-troops-could-be-axed-thursday-for-refusing-covid-vax-n585196">tohe-axed-thursday-for-refusing-covid-vax-n585196</a> 14,000 Army Guard Troops Could Be Axed Thursday for Refusing COVID Vax; <a href="mailto:reuters.com/world/us/us-appeals-court-vacates-federal-vaccine-mandate-pending-additional-hearing-2022-06-27">tohe-axed-thursday-for-refusing-covid-vax-n585196</a> 14,000 Army Guard Troops Could Be Axed Thursday for Refusing COVID Vax; <a href="mailto:reuters.com/world/us/us-appeals-court-vacates-federal-vaccine-mandate-pending-additional-hearing-2022-06-27">tohe-axed-thursday-for-refusing-covid-vax-n585196</a> 14,000 Army Guard Troops Could Be Axed Thursday for Refusing COVID Vax; <a href="mailto:reuters.com/world/us/us-appeals-court-vacates-federal-vaccine-mandate-pending-additional-hearing-2022-06-27">tohe-axed-thursday-for-refusing-covid-vax-n585196</a> 14,000 Army Guard Troops Could Be Axed Thursday for Refusing COVID Vax; <a href="mailto:reuters.com/world/us/us-appeals-court-vacates-federal-vaccine-mandate-pending-additional-hearing-2022-06-27">tohe-axed-h
- Popular anti-vax tweets: A 6 month old baby is being denied a ♥ transplant at Vanderbilt unless his parents vaccinate him. They've refused on religious & medical grounds. His heart is failing and his life CANNOT be lost because of the agenda clearly at play here. Parental rights matter. (THREAD) <a href="https://t.co/TBUluhNXvs">https://t.co/TBUluhNXvs</a>; I watched as a friend who was 6 months pregnant was forced to choose between taking the vaccine or losing her job. Where was all this defense of women's medical freedom then?; The "principled conservative" Liz Cheney voted AGAINST my amendment to protect service members who've been unfairly punished by Biden's out of control vax mandate. She's a PUPPET of Nancy Pelosi. Wyoming you MUST elect @HagemanforWY. Cheney is OUT OF CONTROL!!; After two years of mask and vaccine mandates, the phrase "my body, my choice" rings a bit hollow #Abortion #RoeVsWade

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# **Countering disinformation June 24 – June 30**

- This week, we see a moderately high number of vaccine hesitancy and disinformation stories;
- Many anti-vax stories published misused data about deaths and side effects of the COVID-19 vaccine for children. Australian Associated Press posted an article with fact-checking this claim <a href="https://www.aap.com.au/factcheck/data-misused-to-claim-covid-vaccines-are-killing-us-kids/">https://www.aap.com.au/factcheck/data-misused-to-claim-covid-vaccines-are-killing-us-kids/</a>
  "The US Food and Drug Administration has authorised that children as young as six months can receive COVID-19 vaccines, amid social media claims the jabs have killed 125 American kids and injured 50,000. Health experts say the claim is false, with no supporting evidence. They say the claim misuses data that is not intended to show a causal link between vaccines and a wide range of unverified adverse medical reactions;"
- Another story with factchecking disinformation claims about children's COVID-19 vaccine https://theparadise.ng/fact-check-infants-should-not-be-vaccinated-against-covid-19-due-topotential-long-term-side-effects/ Fact Check: Infants should not be vaccinated against COVID-19 due to potential long-term side effects;
- ☐ It is necessary to ensure that fact-checking links are widely shared. The suggestion is to promote them via social media communication; also, through partnerships with local organizations and communities who would share this information or similar fact-checking details from journalists and researchers in the media.

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# Popular anti-vax stories sorted by shares

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

- □ dailycaller.com/2022/06/27/cdc-kids-vaccine-covid-coronavirus-flawed-study-fda CDC Caught Using False Data To Recommend Kids' COVID Vaccine
- □ rumble.com/v1a5oej-comparing-natural-immunity-to-vaccine-induced-immunity-dr.-steven-pelech-an.html Comparing natural Immunity to vaccine-induced immunity | Dr. Steven Pelech & Julie Ponesse
- dailysceptic.org/2022/06/22/covid-vaccines-more-likely-to-put-you-in-hospital-than-keep-you-out-bmi-editors-analysis-of-pfizer-and-moderna-trial-data-finds Covid Vaccines More Likely to Put You in Hospital Than Keep You Out, BMJ Editor's Analysis of Pfizer and Moderna Trial Data Finds
- □ <u>ravarora.substack.com/p/the-truth-about-vaccine-induced-myocarditis-c21</u> The Truth About Vaccine-Induced Myocarditis: Part 2
- □ sharylattkisson.com/2022/06/republicans-question-cdc-and-fda-on-their-ok-for-covid-19-vaccine-for-toddlers-and-babies Republicans question CDC and FDA on their ok for Covid-19 vaccine for toddlers and babies
- □ theepochtimes.com/cdc-confirmed-post-vaccination-death-from-blood-clotting-two-weeks-before-alerting-public-emails 4556517.html CDC Confirmed Post-Vaccination Death From Blood Clotting 2 Weeks Before Alerting Public: Emails
- □ boriquagato.substack.com/p/how-do-you-miss-the-most-blatant how do you miss the most blatant safety

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# Anti-vax stories sorted by the projected impact

- dailysceptic.org/2022/06/22/covid-vaccines-more-likely-to-put-you-in-hospital-than-keep-you-out-bmj-editors-analysis-of-pfizer-and-moderna-trial-data-finds Covid Vaccines More Likely to Put You in Hospital Than Keep You Out, BMJ Editor's Analysis of Pfizer and Moderna Trial Data Finds
- □ theepochtimes.com/cdc-confirmed-post-vaccination-death-from-blood-clotting-two-weeks-before-alerting-public-emails 4556517.html CDC Confirmed Post-Vaccination Death From Blood Clotting 2 Weeks Before Alerting Public: Emails
- □ <u>ravarora.substack.com/p/the-truth-about-vaccine-induced-myocarditis-c21</u> The Truth About Vaccine-Induced Myocarditis: Part 2
- □ <u>dailycaller.com/2022/06/27/cdc-kids-vaccine-covid-coronavirus-flawed-study-fda</u> CDC Caught Using False Data To Recommend Kids' COVID Vaccine
- □ <u>rumble.com/v1a5oej-comparing-natural-immunity-to-vaccine-induced-immunity-dr.-steven-pelech-an.html</u>
  Comparing natural Immunity to vaccine-induced immunity | Dr. Steven Pelech & Julie Ponesse
- □ sharylattkisson.com/2022/06/republicans-question-cdc-and-fda-on-their-ok-for-covid-19-vaccine-for-toddlers-and-babies Republicans question CDC and FDA on their ok for Covid-19 vaccine for toddlers and babies
- □ boriguagato.substack.com/p/how-do-you-miss-the-most-blatant how do you miss the most blatant safety



# Measures for countering health disinformation

- Anti-vaccine narratives are still highly active 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.")

7/12/2022

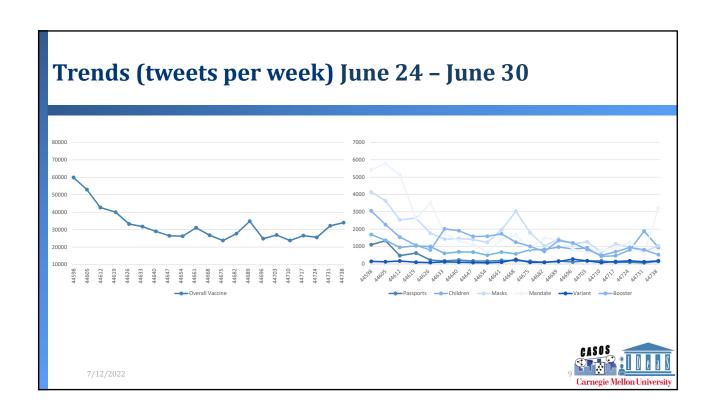
# Measures for countering health disinformation

- 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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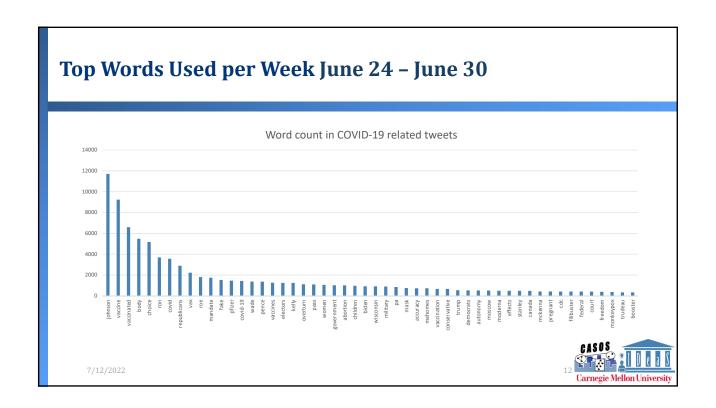
#### High Level View by City June 24 - June 30 Tweets Conversation topics trending this week Tweets Overall Vaccine 14642 49.1% 10327 34.6% 0.9% 10.9% 1361 4.6% over last Mandates Vaccine Passports 0.4% 0.8% 0.8% 1.2% FDA Approval 40 22 0.2% 11 0.1% 0.1% 3 0.2% Military Boosters 326 171 1.2% 89 0.9% 0.8% 1.2% 24 1.8% Experimental Employees 125 48 0.3% 32 0.3% 0.4% 35 1.1% 9 0.7% Many tweets comparing the new "Experimental" 209 97 0.7% 52 0.5% 2.3% 45 1.4% 9 0.7% Children 659 327 2.2% 215 2.1% 3.0% 81 2.5% 28 2.1% abortion ruling and vaccine mandates in a Myocarditis 138 71 0.5% 31 0.3% 0.8% 29 0.9% 5 0.4% political context 369 73 16 1.2% 176 1.2% 100 1.0% 1.5% 2.3% Heart 994 554 3.8% 249 2.4% 3.0% 84 2.6% 99 7.3% Masks Thrombosis/VITT 0.0% 0.0% 0.0% 937 17 7.8% 2884 1505 10.3% 9.1% 6.5% 319 9.8% 106 Mandates 0.5% 0.2% 117 70 0.3% 15 0.5% Natural Immunity 29 3 71 0.6% Efficacy 170 0.6% 0.7% 14 1.0% Omicron Delta Variant 0.9% 1.2% Race 2.5% 1.3% 29 2.1% Ivermectin 815 325 2.2% 409 4.0% 2.0% 13 7/12/2022

# High Level View by County June 24 – June 30

County	Allegheny	Beaver	Butler	Cambria	Fayette	Indiana	Somerset	Westmoreland
Overall Vaccine	10580	29	31	5	13	11	2	43
Vaccine Passports	46	1				6		
FDA	11							
Boosters	95		1		1			1
Employees	34		1					
"Experimental"	53			2				1
Children	215				1			
Myocarditis	31	1						
Heart	103	2						
Masks	263		3			1		4
Thrombosis/VITT	4							
Mandates	954	1	3	1	2	7		5
Natural Immunity	32							
Efficacy	24							
Omicron	41		1					
Delta Variant	8		1				1	
Race	139	1						
Ivermectin	4							
Military	411							
Breakthrough	3							

 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 June 24 - June 30**

☐ 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	Indiana
covid19 (107)	covid (1)	novaccinemandates (6)
caringforeachother (62)	monkeypox (1)	novaccinepassports (6)
roevswade (37)	vaccine (1)	abortionrights (1)
wvu (37)	vaccinesideeffects (1)	covidvaccine (1)
abortion (27)	truth (1)	unvaccinated (1)

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### **Top Hashtags by City June 24 - June 30**

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

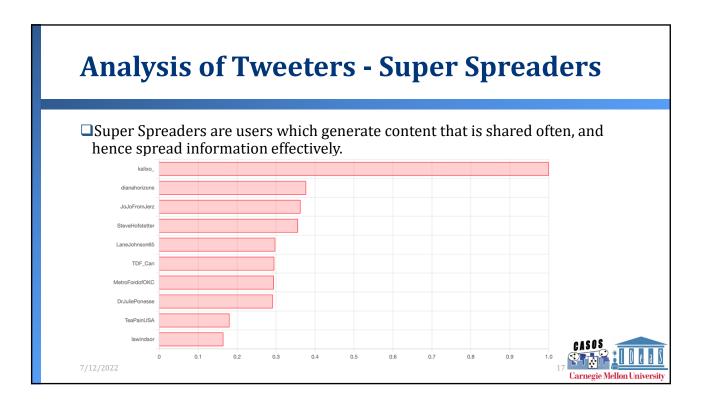
Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/ Bethlehem	Other
covid19 (122)	caringforeachother (15)	roevswade (55)	covid19 (107)	wisen (8)	covid19 (46)	vaccine (17)
caringforeachother (89)	covid19 (15)	abortion (53)	caringforeachother (62)	bluevoices (5)	roevswade (24)	covid19 (14)
roevswade (50)	roevswade (9)	covid19 (27)	roevswade (37)	covid19 (5)	caringforeachother (19)	caringforeachother (9)
abortion (35)	abortion (8)	wisen (21)	wvu (37)	wtpblue (5)	wisen (19)	fauci (7)
monkeypox (32)	monkeypox (6)	biotech (20)	abortion (27)	vaccine (3)	abortion (17)	monkeypox (7)

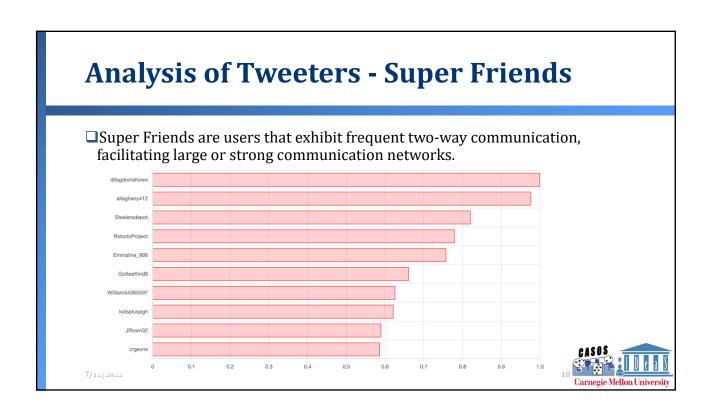


# **Top URLs by County June 24 – June 30**

Allegheny	Butler + Beaver	Indiana	West Moreland
jsonline.com/story/news/politics/2022/06/23 /ron-johnson-now-says-he-coordinated- handoff-false-elector-slates-pence/7715502001 Ron Johnson now says he helped coordinate effort to pass false elector slates to Pence, but his new explanation drew a quick rebuke (108)	cbwrong.blogspot.com/2022/06/there-is-some- real-scary-stuff-going-on.html I COULD BE WRONG. (2)	boriquagato.substack.com/p/how-do- you-miss-the-most-blatant how do you miss the most blatant safety signal in vaccine history? (1)	bit.ly/3AbjIRZ Pittsburgh denies covid vaccine exemptions to some cops citing religious reasons (1)
dailycaller.com/2022/06/27/cdc-kids-vaccine- covid-coronavirus-flawed-study-fda CDC Caught Using False Data To Recommend Kids' COVID Vaccine (48)	redstate.com/bobhoge/2022/06/27/14000- army-guard-troops-could-be-axed-thursday-for- refusing-covid-vax-n585196 14,000 Army Guard Troops Could Be Axed Thursday for Refusing COVID Vax (1)	nejm.org/doi/full/10.1056/nejmp1502	chop.edu/centers-programs/vaccine- education-center/vaccine- ingredients/fetal-tissues Vaccine Ingredients - Fetal Cells (1)
mirror.co.uk/news/politics/breaking-boris- johnson-partygate-lies-27355646 Boris Johnson Partygate 'lies' investigation begins (28)	whitehouse.gov/briefing-room/statements- releases/2022/06/28/fact-sheet-biden-harris- administration-monkeypox-outbreak-response FACT SHEET: Biden-Harris Administration's Monkeypox Outbreak Response (1)	nypost.com/2022/06/18/eric-adams- gives-unvaccinated-nyc-workers-shot- at-jobs Eric Adams gives unvaccinated NYC workers 'shot' to get jobs back (1)	wtae.com/article/pittsburgh- threatening-to-fire-police-officers- who-have-not-been-vaccinated- against-covid-19/40458602 Pittsburgh threatening to fire polic officers who have not been vaccinate against COVID-19 (1)
Vaccine.UPMC.com COVID-19 Vaccines at UPMC (27)	covid.cdc.gov/covid-data-tracker_CDC COVID Data Tracker (1)		, , , , , , , , , , , , , , , , , , ,
the-sun.com/health/5615177/first-outbreak- highly-infectious-polio-uk-signs VIRAL FEARS First outbreak of highly infectious polio detected in UK since 1984 – the 6 signs to know (2)	whdh.com/news/elmo-just-got-his-covid-19- vaccine Elmo just got his Covid-19 vaccine (1)		
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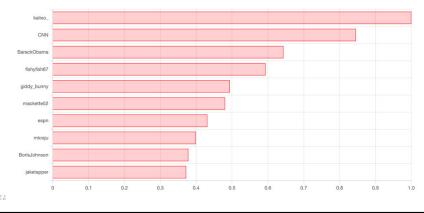
Top UR	Ls by Cit	y June 24	- June 30			
Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/ Bethlehem	Other
	appeals-court-vacates- federal-vaccine-mandate-	reuters.com/world/us/us- appeals-court-vacates-federal- vaccine-mandate-pending- additional-hearing-2022-06-27 U.S. appeals court vacates federal vaccine mandate pending additional hearing (102)	isonline com/story/news/politics/ 1/2022/06/23/ron-johnson-now- says-he-coordinated-handoff- false-elector-slates- pence/7715502001 Ron Johnson now says he helped coordinate effort to pass false elector slates to Pence, but his new explanation drew a quick rebuke (108)	dailycaller.com/2022/06/27/cd c-kids-vaccine-covid- coronavirus-flawed-study-fida CDC Caught Using False Data To Recommend Kids' COVID Vaccine (2)	dailycaller.com/2022/06/27/cdc- kids-vaccine-covid-coronavirus- flawed-study-fda CDC Caught Using False Data To Recommend Kids' COVID Vaccine (37)	evanhospital.com/virus Coronavirus Update (5)
reuters.com/world/us/us- appeals-court-vacates- dedral-vaccine-mandate- pending-additional-hearing- 2022-06-27 U.S. appeals court vacates federal vaccine mandate pending additional hearing (42)	dailycaller.com/2022/06/27 /cdc-kids-vaccine-covid- coronavirus-flawed-study- fda CDC Caught Using False Data To Recommend Kids'	isonline.com/storv/news/politics/ 2022/06/23/ron-iohnson-now- says-he-coordinated-handoff- false-elector-slates- pence/7715502001 Ron Johnson now says he helped coordinate effort to pass false elector slates to Pence, but his new explanation drew a quick rebuke (15)	-kids-vaccine-covid-coronavirus-	foxnews.com/opinion/cdc- recommends-covid-19-vaccines- babies-kids-under-5-6-things- parents-need-know.CDC recommends COVID-19 vaccines for babies, kids under 5. Here are 6 things parents need to know (2)	cnn.it/3npMITW Elmo is now vaccinated for Covid-19 (14)	washingtonpost.com/politics/ 2022/06/22/sen-ron-johnson- under-fire-over-fake-electors- disclosure-hearing Sen. Ron Johnson under fire over fake- electors disclosure at hearing (5)
cnn.it/3npMITW Elmo is now vaccinated for Covid-19 (32)		nypost.com/2022/06/29/dr- fauci-reveals-covid-rebound- after-pfizers-paxlovid-treatment Dr. Fauci reveals' COVID rebound' after Pfizer's Paxlovid treatment (12)	mirror.couk/news/politics/brea king-boris-johnson-partygate- lies-27355646 Boris Johnson Partygate lies investigation begins (28)	geerie.com/story/news/caronaw irus/2022/06/73/covid-19- vaccine-avallable-erie-children- 6-months-4-years-saint-vincent- upmc-hamot-lecom- health/65362176007 Erie health systems receive COVID- 19 vaccine for young children; shots to start Thursday (2)	redstate.com/hobhoge/2022/06/27 /14000-army-guard-troops-could- he-axed-thurvday-for-rebusing- covid-vax-n585196 14,000 Army Guard Troops Could Be Axed Thursday for Refusing COVID Vax (13)	dailycaller.com/2022/06/27/c dc-kids-vaccine-covid- coronavirus-flawed-study-fda CDC Caught Using False Data To Recommend Kids' COVID Vaccine (4)
rumble.com/v1a5oej- comparing-natural- immunity-to-vaccine- induced-immunity-dr- steven-pelech-antmi Comparing natural Immunity to vaccine-induced immunity   Dr. Steven Pelech & Julie Ponesse (25)	induced-myocarditis-c21 The Truth About Vice Cine-	dailycaller.com/2022/06/27/cdc- kids-vaccine-coyid-coronavirus- flawed-study-fda CDC Caught Using False Data To Recommend Kids' COVID Vaccine (9)	Vaccine.UPMC.com COVID-19 Vaccines at UPMC (27)	iustthenews.com/nation/free- speech/twitter-dismisses: clarence-thomas-threat-censors- peer-reviewed-study-covid-vax Twitter dismisses Clarence Thomas threat but censors peer- reviewed study on COVID vax and fertility (2)	thepostmillennial.com/trudeausays.no-gort-should-tell-a-woman-what-she-can-and-cant-do-with-her-body-the-same-day-he-defends-vax-mandates Trudeau says no goy't should tell a woman what to do with her body the same day he defends vax mandates (12)	nature.com/articles/s41467- 022-31401-5. Age and sex- specific risks of myocarditis and pericarditis following Covid-19 messenger RNA vaccines (4)
/cdc-kids-vaccine-covid- coronavirus-flawed-study- fda CDC Caught Using False Data To Recommend Kids' COVID Vaccine (22)	sharylattkisson.com/2022/0 6/republicans-question-ede- and-fda-on-their-osk-for- covid-19-vaccine-for- toddlers-and-babies Republicans question CDC and FDA on their ok for Covid-19 vaccine for toddlers and babies (5)	sun.com/health/5615177/first- outbreak-highly-infectious-pollo- luk-signs VIRAL FEARS First outbreak of highly infectious pollo detected in UK since 1984 - the 6 signs to know (8)	sun.com/health/5615177/first- outbreak highly-infectious-polio- uk-signs VIRAL FEARS First outbreak of highly infectious polio detected in UK since 1984 – the 6 signs to know (2)	theepochtimes.com/cdc- confirmed-post-vaccination- death-from-blood-clotting-two- weeks-before-alerting-public- emails 4556517.html CDC Confirmed Post-Vaccination Death From Blood Clotting 2 Weeks Before Alerting Public: Emails [22]	dailysceptic.org/2022/06/22/covid- vaccines-more-likely-to-put-you-in- hospital-than-keep-you-out-bmi- editors-analysis-of-pfizer-and- moderna-trial-data-finds-Covid Vaccines More Likely to Put You in Hospital Than Keep You Out, BMJ Editor's Analysis of Pfizer and Moderna Trial Data Finds (11)	the- sun.com/health/5615177/first -outbreak-highly-infectious- polio-uk-signs VIRAL FEARS First outbreak of highly infectious polio detected in UK since 1984 - the 6 signs to know (4)
.,,					Ca	rnegie Mellon University





# **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
kalixo_	2636
dianahorizons	1000
mat_boone	707
TeaPainUSA	439
lawindsor	363
RepLizCheney	352
greg_price11[+]	343
SecDef	341
RepMikeJohnson[+]	318
SenRonJohnson[+]	300
kalixo_	2636
dianahorizons	1000
mat_boone	707



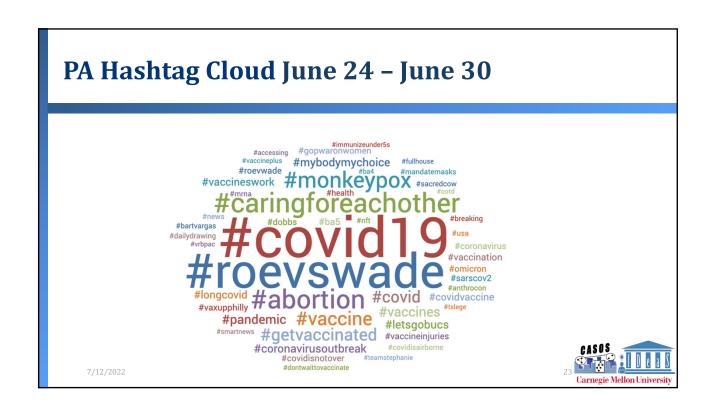
# **Trending Tweets June 24 - June 30**

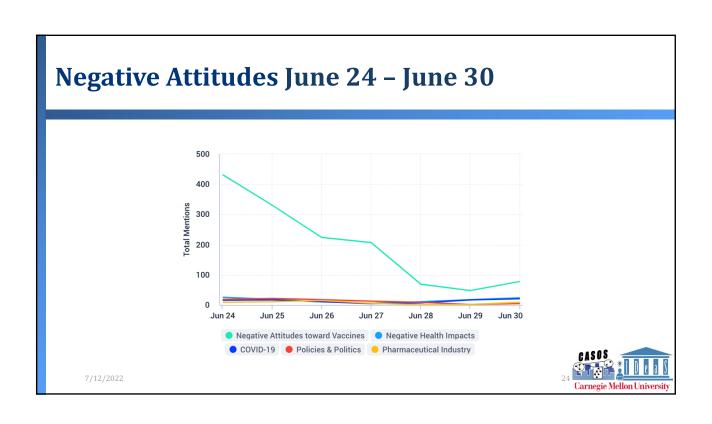
Tweets that are the most forwarded, either by retweet, reply, or quote:

- republicans were so loud with "my body my choice" when it came to getting vaccinated;
- ☐ really said "my body my choice" about the vaccine and then proceeded to overturn roe v. wade;
- □ Ron Johnson, who spent the 4th of July in Moscow, is one of the biggest impediments to breakin' the filibuster and codify in' Roe as law. Who's ready to send him home this November?;
- □ BREAKING: @RepLizCheney just voted with Democrats on the Armed Services Committee to kill an amendment that would've forced Defense Secretary Lloyd Austin to rescind the covid vaccine mandate for the military;
- ☐ The Army Reserve and Army National Guard deadline imposed by @SecDef for mandatory COVID-19 vaccination is June 30th. THREAD on the effects of the military vaccine mandate so far;
- ☐ Good news! The 5th circuit blocked the Biden Administration's vax mandate for federal workers pending full en banc hearing. The covid vax mandates has fueled generalized vaccine skepticism and is a black mark on public health. <a href="https://t.co/DfymCnZFTS">https://t.co/DfymCnZFTS</a>;
- □ Ron Johnson claims Rep Mike Kelly sent him PA elector docs to give to Mike Pence on Jan 6. Kelly denied having any knowledge of this. I just asked Johnson who is lying here, and more... video coming soon, stay tuned. <a href="https://t.co/10n9avZPqd">https://t.co/10n9avZPqd</a>;
- □ A 6 month old baby is being denied a ♥ transplant at Vanderbilt unless his parents vaccinate him. They've refused on religious & medical grounds. His heart is failing and his life CANNOT be lost because of the agenda clearly at play here. Parental rights matter. (THREAD) <a href="https://t.co/TBUluhNXvs">https://t.co/TBUluhNXvs</a>;
- □ I watched as a friend who was 6 months pregnant was forced to choose between taking the vaccine or losing her job. Where was all this defense of women's medical freedom then?;
- □ The "principled conservative" Liz Cheney voted AGAINST my amendment to protect service members who've been unfairly punished by Biden's out of control vax mandate. She's a PUPPET of Nancy Pelosi. Wyoming you MUST elect @HagemanforWY. Cheney is OUT OF CONTROL!!;
- ☐ After two years of mask and vaccine mandates, the phrase "my body, my choice" rings a bit hollow #Abortion #RoeVsWade

#### **General PA Conversation June 24 - June 30** 600 400 **Total Mentions** 200 0 Jun 24 Jun 25 Jun 26 Jun 27 Jun 28 Jun 29 Jun 30 COVID-19 Policies & Politics Health Authorities Negative Attitudes toward Vaccines Pharmaceutical Industry 7/12/2022

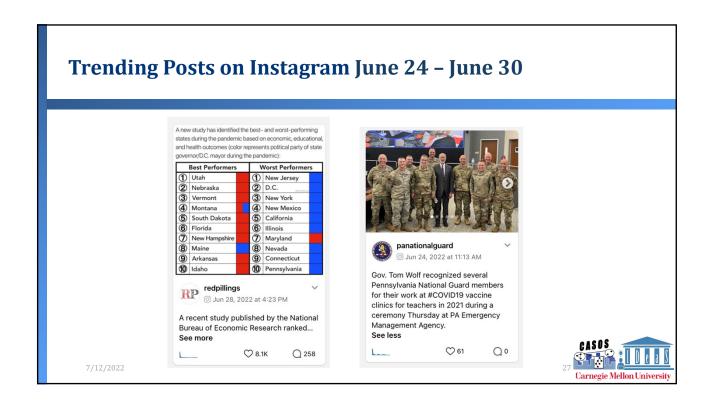
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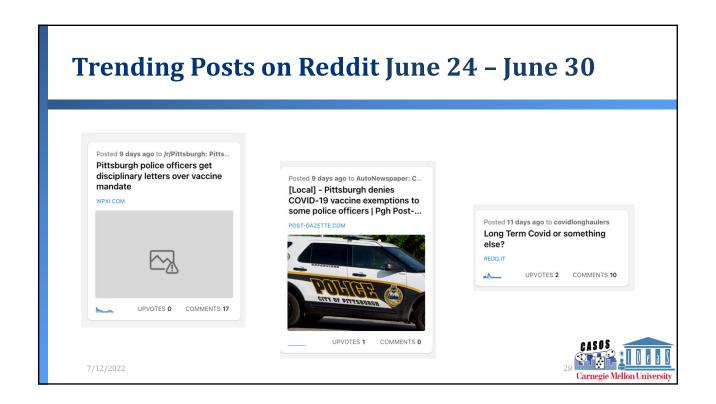












# **For More Information**

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- ☐ CASOS website <a href="http://www.casos.cs.cmu.edu/">http://www.casos.cs.cmu.edu/</a>
- ☐ Social Cybersecurity Working Group <a href="http://social-cybersecurity.org">http://social-cybersecurity.org</a>
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7/12/2022

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