PA Vaccine Conversations and Misinformation on Twitter

Iuliia Alieva, Dawn Robertson, Dr. Kathleen M. Carley Vaccine Hesitancy Project Update based on July 30 - August 5, 2021

The CMU centers for:

Informed DEmocracy And Social cyber-security

Computational Analysis of Social and Organizational Systems



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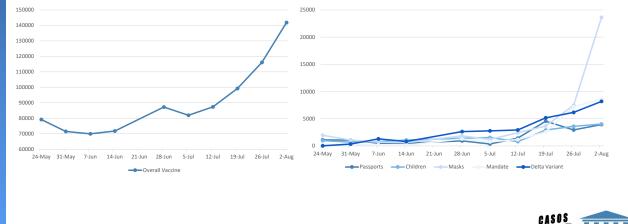
PA Vaccine Conversation Project

- ☐ 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 antivaccination campaigns, science messages, misinformation, disinformation, conspiracy theories, and vaccine hesitancy messages.
- ☐ The material contained in this report is a summary of social media content and does not represent a judgment or characterization of any individual.



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High Level View by City July 30 – August 5

	Total PA	Philad	lelphia	Pittsb	ourgh	E	rie	Allentow	n/Bethlehem	C	ther
Conversation	Tweets	Tweets	%	Tweets	%	Tweets	%	Tweets	%	Tweets	%
Overall Vaccine	121634	75539	62.1%	23129	19.0%	1206	1.0%	18368	15.1%	3392	2.8%
Vaccine Passports	2243	997	1.3%	538	2.3%	26	2.2%	645	3.5%	37	1.1%
Not FDA Approved	424	222	0.3%	86	0.4%	8	0.7%	90	0.5%	18	0.5%
Boosters	877	428	0.6%	232	1.0%	8	0.7%	173	0.9%	36	1.1%
Misinfo: Shedding	24	17	0.0%	2	0.0%			5	0.0%		
"Experimental"	374	186	0.2%	82	0.4%	3	0.2%	94	0.5%	9	0.3%
Children	1338	852	1.1%	237	1.0%	15	1.2%	204	1.1%	30	0.9%
Myocarditis	26	15	0.0%	3	0.0%	2	0.2%	6	0.0%		
Heart	792	515	0.7%	138	0.6%	7	0.6%	103	0.6%	29	0.9%
Masks	12599	7801	10.3%	2093	9.0%	125	10.4%	2067	11.3%	513	15.1%
Infertility	16	11	0.0%	2	0.0%			2	0.0%	1	0.0%
Mandates	4530	2676	3.5%	720	3.1%	50	4.1%	937	5.1%	147	4.3%
Natural Immunity	1048	896	1.2%	80	0.3%			70	0.4%	2	0.1%
Efficacy	111	64	0.1%	17	0.1%	1	0.1%	28	0.2%	1	0.0%
Spike Proteins	145	70	0.1%	47	0.2%			28	0.2%		
Delta Variant	4185	2300	3.0%	848	3.7%	46	3.8%	781	4.3%	210	6.2%
Race	1412	878	1.2%	291	1.3%	20	1.7%	195	1.1%	28	0.8%
Ivermectin	68	34	0.0%	15	0.1%	2	0.2%	15	0.1%	2	0.1%
Military	353	211	0.3%	51	0.2%	2	0.2%	80	0.4%	9	0.3%
Breakthrough	609	321	0.4%	120	0.5%	4	0.3%	140	0.8%	24	0.7%

- Tweets here counted only if there is a city location attached
- Graphene and "Strike Force" operation conversations tapering off
- Trending disinformation narratives:
 - Ivermectin treatment for COVID
 - Vaccine mandate for US military
- "Breakthrough" infection tweets trending



High Level View by County July 30 - August 5

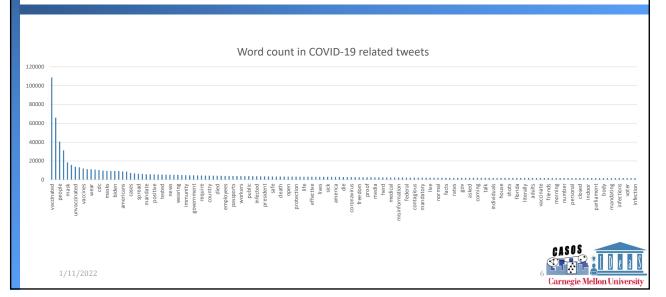
County	Allegheny	Beaver	Butler	Cambria	Fayette	Indiana	Somerset	Westmoreland
Overall Vaccine	23635	47	95	55	48	12	12	80
Vaccine Passports	540		4					1
Not FDA Approved	89		1					
Boosters	239			2				1
Misinfo: Shedding	2							
"Experimental"	82			1				
Children	242		2			1		1
Myocarditis	3							
Heart	144		1					2
Masks	2184	8	13	8	5	1	2	11
Infertility	2							
Mandates	737		5		5		1	7
Natural Immunity	80							1
Efficacy	17							
Spike Proteins	47							
Delta Variant	875	2	6	6	3	1		2
Race	295				2			
Ivermectin	15							1
Military	51		1	1	1			
Breakthrough	122				1			

- Tweets counted here if there is a county location attached
- Race: pulled by one of the vaccine keywords plus at least one other term in ("Black", "African American", "of color", "Latin", "Hispanic", "brown", "eugenic")



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Top Words Used per Week July 30 - August 5



Top Hashtags by City July 30 - August 5

☐ 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 (2022) + covid (375)	Covid19 (463) + covid (101)	covid19 (503) + covid (105)	covid19 (1206) + covid (223)	covid19 (51) + covid (9)	covid19 (711)	covid19 (111) + covid (43)
Deltavariant (365)	Deltavariant (218)	Deltavariant (94)	Deltavariant (222)	getvaccinated (30)	deltavariant (188)	Getvaccinated (56)
vaccinated (303) + Getvaccinated (478) + vaxupphilly (279)	Vaccine (56) + getvaccinated (90)	getvaccinated (94) + vaccinated (72)	Getvaccinated (190)	Deltavariant (16)	getvaccinated (208) + vaccinated (107)	Deltavariant (29)
vaccinepassport (106)	wearamask (39)	Vaccinepassport (30)	Steelers (176)	Vaccine (12)	Wearamask (70)	vaccine (22)
Vaxtovote (100)	Delta (24)	uniteagainstcovid (23)	Vaccinepassport (64)	Covidiots (7)	vaxtovote (58)	Trumpvirus (12)
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Top Hashtags by County July 30 - August 5

■ We've checked hashtags in several counties such as Allegheny, Beaver, Bradford, Butler, Cambria, Crawford, Fayette, Indiana, Lackawanna, Luzerne, Lycoming, Monroe, Pike, Potter, Somerset, West Moreland, York. 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	Cambria	Fayette	Lackawanna	Luzerne	Monroe	West Moreland
covid19 (1218)	covid19 (4)	Maskup (7)	Antivaxxers (1)	Covid19 (6)	Trumpvirus (11)	Covid19 (1)	covid19 (5)
deltavariant (224)	GetVaccinat ed (3)	Besafe (2)	Covid19 (1)	Vaccinepasspor t (3)	Covid19 (2)	deltavariant (1)	Vaccine (2) + vaccineswork (2)
Getvaccinated (200)	DeltaVariant (2)	Covid19 (2)	Deltaplus (1)	Delta (2)	Getvaccinated (2)	facebookkills (1)	vaxtovote (2)
Steelers (179)	DoNotComp ly (2)	Getvaccinatednow (2)	getvaccinated (1)	Getvaccinatedn ow (1)	covidiots (1)	Georgeorwell (1)	getvaccinated (1)
Covidvaccine (127)	antiviral (1)	Resistance (2)	nocovidmandates (1)	maskmandates (1)	maskup (1)	Getvaccinated (1)	maskmandate (1)

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 * If you do not see a county in the table, that means we couldn't find hashtags related to COVID19 in this county.

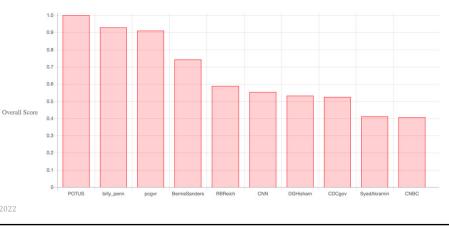


Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/ Bethlehem	Other
https://cnb.cx/2Wv0nJM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive (709)	https://www.washingtonpost.com/h eath/2021/07/30/provincetown- covid-outheak-vaccinated/ CDC study shows three-fourths of people infected in Massachusetts coronavirus outbreak were vaccinated but few required hospitalization (£1)	https://cnb.cx/2Wv0nJM Breakthrough Cowld cases: At least 125,000 fully vaccinated Americans have tested positive (69)	https://cnb.cx/2Wv0nJM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive (338)	https://cnb.cx/2Wv0nJM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive (18)	https://cnb.cx/2Wv0nIM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive (160)	https://cnb.cx/2Wv0nJM Breakthrough Covid cases: A least 125,000 fully vaccinate Americans have tested positi (42)
https://www.washingtonpost.com/health/ 2021/01/30/groinnetown-cond- outbreak-vascinated/ CDC study shows three-fourths of people infected in Massachusetts coronavirus outbreak were vaccinated but few required hospitalization (354)	https://cnb.cc/2WV0nIM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive (55)	http://vaccines.gov (61)	https://cnn.it/2V3BBQJ Vaccination is not enough by itself to stop the spread of variants, study finds (298)	https://trib.al/irExoEW Chart: Less than 0.1% of vaccinated Americans tested positive for COVID-19 (11)	http://vaccines.gov (85)	https://www.nbcnews.com/ alth/health- news/breakthrough-covid- cases-least-125-000-fully- vaccinated-americans-have- n1275500 Breakthrough Cov cases: Data shows how man vaccinated Americans have tested positive (19)
https://ionathanturley.org/2021/08/03/ge orge-mason-law-professor-challenges- school-vaccine-mandate/ George Mason Law Professor Challenges School Vaccine Mandate (315)	https://rumble.com/vkgdq7-deadly- shots-former-pfizer-employee- confirms-poison-in-covid- vaccine.html DEADU SHOTSI Former Pfizer Employee Confirms Poison in COVID Vaccine* (45)	https://www.washingtonpost.co m/health/2021/07/30/provinceto wn-covid-oubreak-vaccinated/ CDC study shows three-fourths of people infected in Massachusetts coronavirus outbreak were vaccinated but few required hospitalization (41)	https://www.theguardian. com/world/2021/aug/04/fi t-and-healthy-man-42- from-southport-who- rejected-vaccine-dies-of- covid Fitness enthusiast, 42, who rejected vaccine, dies of Covid (140)	https://cnn.it/2V3BBQJ Vaccination is not enough by itself to stop the spread of variants, study finds (6)	washingtonpost.com/health/2021/07/30/grovi ncetown-covid-outbreak-vaccinated/. COc study shows three-fourths of people infected in Massachusetts coronavirus outbreak were vaccinated but few required hospitalization (78)	https://trib.al/irExoEW. Charl Less than 0.1% of vaccinated Americans tested positive for COVID-19 (14)
https://www.nbcnews.com/health/health- news/breakthrough-covid-cases-least-125- 000-fully-vaccinated-americans-have- n1275500 Breakthrough Covid cases: Data shows how many vaccinated Americans have tested positive (263)	https://www.washingtonpost.com/health/2021/07/29/cdc-mask-guidance/ The war has changed': Internal CDC document urges new messaging, warns delta infections likely more severe (45)	https://cnn.it/2V3BBQJ Vaccination is not enough by itself to stop the spread of variants, study finds (36)	https://nyti.ms/376u8mv C.D.C. Internal Report Calls Delta Variant as Contagious as Chickenpox (122)	https://nyti.ms/376u8mv C.D.C. Internal Report Calls Delta Variant as Contagious as Chickenpox (6)	https://hrib.al/irExoEW. Chart: Less than 0.1% of vaccinated Americans tested positive for COVID-19 (76)	http://vaccines.gov (12)
https://sharylattkisson.com/2021/08/covi d-19-natural-immunity-compared-to- vaccine-induced-immunity the-definitive- summary/ Covid-19 natural immunity compared to vaccine-induced immunity: The definitive summary (220)	https://www.theguardian.com/worl d/2021/uj/28/dcd-director-new- mask-guidance-vaccinated- spreading-delta-variant New US mask guidance prompted by evidence vaccinated can spread Delta (42)	https://www.nbcnews.com/healt h/health-news/breakthrough- covid-case-least-125-000-fully- vaccinated-american-have- n127550g Breakthrough Covid cases: Data shows how many vaccinated Americans have tested positive (36)	https://www.washingtonp ost.com/health/2021/07/3 0/provincetown-covid- outbreak-vaccinated/ CDC study shows three-fourths of people infected in Massachusetts coronavirus outbreak were vaccinated but few required hospitalization (120)	http://vaccines.gov (5)	https://cm.st/293802/ Vaccination is not enough by itself to stop the spread of variants, study finds (71)	http://cos.lw/eRxX30/PTO TI Offspring Oust Drummer Pet Parada for Choosing Not to 6 COVID Vaccine (12)

Top URLs by County July 30 – August 5							
Allegheny	Butler	Cambria	Fayette	Lackawanna	Luzerne		
https://cnb.cx/2Wv0nJM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive (344)	https://cnb.cx/2Wv0nIM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive (3)	https://wiactv.com/news/local/inferti lity-and-the-covid-19-vaccine-local- ob-gvn-debunks-myths-and-rumors infertility and the COVID-19 Vaccine: local OB-GYN debunks myths and rumors (2)	http://a.msn.com/01/en- us/AAMWSTMT/Ocidest Anti-vax Virginia couple gets home detention on Capitol riot charge (1)	http://cos.lv/eUAb50FHfmK Broadway Audiences Required to Be Vaccinated, Wear Masks (1)	https://fox56.com/news/local/federal-worker react-to-president-bidens-new-vaccine- requirements Federal employees react to President Biden's new vaccine requirements (2)		
https://cnn.it/2V3BBQJ Vaccination is not enough by itself to stop the spread of variants, study finds (300)	https://trib.al/irExoEW_Chart: Less than 0.1% of vaccinated Americans tested positive for COVID-19 (3)	http://bit.ly/CoronavirusPADOH COVID-19 in Pennsylvania (1)	http://dlvr.it/S4hVf4_US surgeon general recommends fully vaccinated people wear masks outdoors to protect the unvaccinated (1)	http://divr.it/S4cWPr Biden will announce vaccination requirement across federal government on Thursday (1)	https://www.washingtonpost.com/health/20/ 07/30/provincetown-covid-outbreak-vaccinate CDC study shows three-fourths of people infected in Massachusetts coronavirus outbre- were vaccinated but few required hospitalizat (2)		
https://www.theguardian.com/world/2021 laug/04/fit-and-healthy-man-42-from- outhport-who-rejected-vaccine-dies-of- could Fitness enthusiast, 42, who rejected vaccine, dies of Covid (140)	http://dlvr.it/\$4hVf4 US surgeon general recommends fully vaccinated people wear masks outdoors to protect the unvaccinated (2)	https://bit.ly/3bUaFU CDC (1)	http://on.msnbc.com/3IV0h4W Dr. Faucl explains updated mask guidance for vaccinated folks (1)	http://dlvr.it/S4hG8y California Covid Cases Surge To S-Month High As Delta Variant Spreads Among The Unvaccinated (1)	http://cos.lv/eRzK30PPOi The Offspring Oust Drummer Pete Parada for Choosing Not to Ge COVID Vaccine (1)		
https://nyti.ms/376u8mv C.D.C. Internal Report Calls Delta Variant as Contagious as Chickenpox (123)	https://trib.al/th2oIN8 Offspring drummer booted from band over failure to get COVID vaccine (2)	https://bit.ly/3vJPSz AOTA, APTA, and ASHA Joint Statement and Call for Professional Action on COVID-19 Vaccination and Education (1)	http://reut.rs/3jbc20i Britain's COVID-19 cases down by 33% over past week (1)	http://dlvr.it/S4hVf4 US surgeon general recommends fully vaccinated people wear mask outdoors to protect the unvaccinated (1)	http://hill.cm/2gfHSnm McConnell: 'It never occurred to me' convincing Americans to get vaccinated would be difficult (1)		
https://www.washingtonpost.com/heal th/2021/07/30/provincetown-covid- outbreak-vaccinated/ CDC study shows three-fourths of people infected in Massachusetts coronavirus outbreak were vaccinated but few required hospitalization (123)	http://hill.cm/n3GObdR Pfizer vaccine effectiveness drops to 84 percent after six months: data (1)	https://cnn.it/3C3q0Sf Some people in Missouri are getting vaccinated in secret to avoid backlash from loved ones, doctor says (1)	http://vaccines.gov (1)	http://dlvr.it/S4nSqW Covid vaccine booster shots for the delta variant are being over-hyped by drug companies (1)	http://hill.cm/MSUr117 Meghan McCain: Democrats 'should give a little credit' to Trum for COVID-19 vaccine (1)		
nospitalization (123)					Carnegie Mellon Unive		

Analysis of Tweeters - Super Spreaders

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

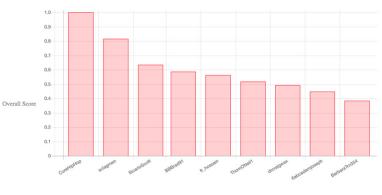




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Analysis of Tweeters - Super Friends

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



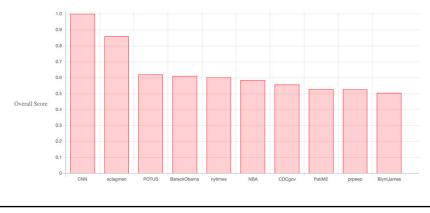


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Analysis of Tweeters - Other Influencers

□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.





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Top Influencers by City July 30 - August 5

☐ The top 5 influencers* for each region related to COVID19/vaccines are as follows:

Philadelphia	Chester	Norristown	Pittsburgh	Erie	Allentown/ Bethlehem	Other
CNN		atrupar	bensimmons_	SenToomey	CassyWearsHeels	POTUS
disclosetv	sclagmen (antivax, conspiracy)	neontaster	KDKA (agency)	aristonacg	USATRUMPMAN1 (conservative, antivax)	BernieSanders
DrPaulOffit	chris_notcapn	Sassychickie	MarkMaddenX (sports)	BadtotheCone	EricBoehlert	RBReich
ElectionWiz	DataDrivenMD	fr_hossain	TheRightMelissa (conservative, antivax)	DBChirpy	HelenKennedy	CDCgov
yafriendsfriend	CureHipHop	michaelcdeibert	Penn_state (gov)	LeviFetterman	MedicVet68	CNBC

*influencers are defined as accounts with tweets often spread by others (ordered by out-degree centrality)



Top Influencers by County July 30 - August 5

☐ The top 5 influencers* for each region related to COVID19/vaccines are as follows:

Allegheny	Butler	Cambria	Fayette	Lackawanna	Luzerne	Monroe	West Moreland
bensimmons_	TheDanKingerski (sport)	onepatriotchi ck (antivax)	mommydog67	AFTunion	rogerdupuis2	Mickie0918	MeghanKDKA
KDKA (agency)	M_jopink (antivax, conservative)	realjasonstru	LaBelle50	cathyde	MisericordiaU	NASCARonReddit	MCipriani_WTAE
MarkMaddenX (sports)	TeamDrydene	CrispinHavener (reporter)	gigi419 (antivax, conservative)	VegHistory	jathomas551	IlanaKeller	Jay_Lil75
TheRightMelissa (conservative, antivax)	Llysowski (reporter)	NicoleFuschino (reporter)	OutofTownTiger	wbrewyou	lessnametag	jpclyons	Daminals76
Penn_state (gov)	DWBerkley	CespedesBBQ	BroncoBaby10	215alexb	SeddieWeddie	rxhjr_	WorldofOutlaws

*influencers are defined as accounts with tweets often spread by others (ordered by out-degree centrality)

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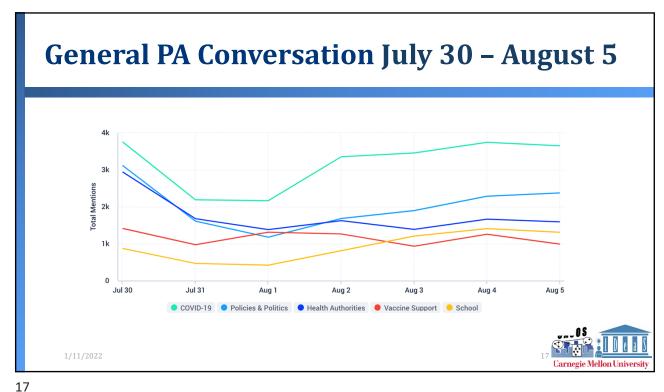
Accounts Referenced by the Most Tweets

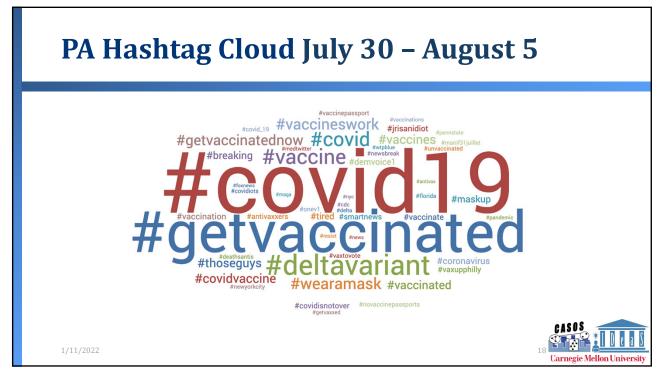
☐ This shows the tweeters that are most often referenced (e.g. mentioned) in PA tweets. Value is the number of tweets that reference the agent.

Agent Label	Value
<u>DGHisham</u>	1660
<u>POTUS</u>	1379
CDCgov	1267
<u>LindsayTuchman</u>	1024
catturd2	888
pfizer	775
GovernorTomWolf	714
CNN	712
<u>DonaldJTrumpJr</u>	623
<u>FoxNews</u>	596

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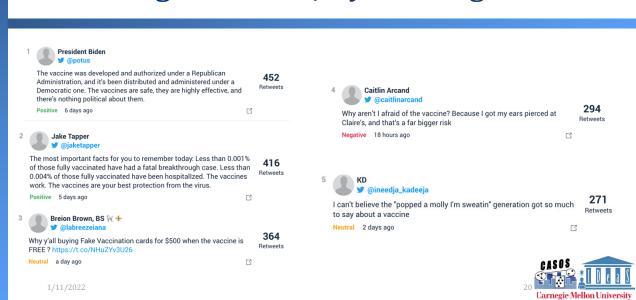
Trending PA stories July 30 - August 5

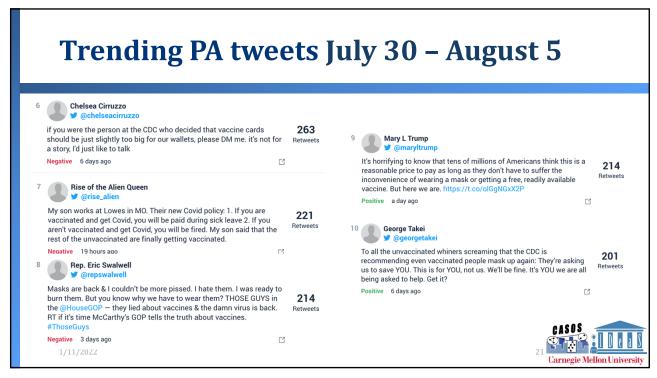
- □ <u>Vaccines.gov</u> Find COVID-19 vaccine locations near you (348 Mentions)
- <u>nytimes.com</u> New York City is expected to require proof of vaccination for indoor dining and fitness (141 Mentions)
- □ <u>nytimes.com</u> They Spurned the Vaccine. Now They Want You to Know They Regret It (118 Mentions)
- □ fox5vegas.com 'I should have gotten the damn vaccine': Las Vegas father of 5 dies from COVID-19 (103 Mentions)
- □ hopkinsmedicine.org COVID-19 Vaccines: Myth Versus Fact (95 Mentions)
- <u>medrxiv.org</u> Virological and serological kinetics of SARS-CoV-2 Delta variant vaccine-breakthrough infections: a multi-center cohort study (81 Mentions)

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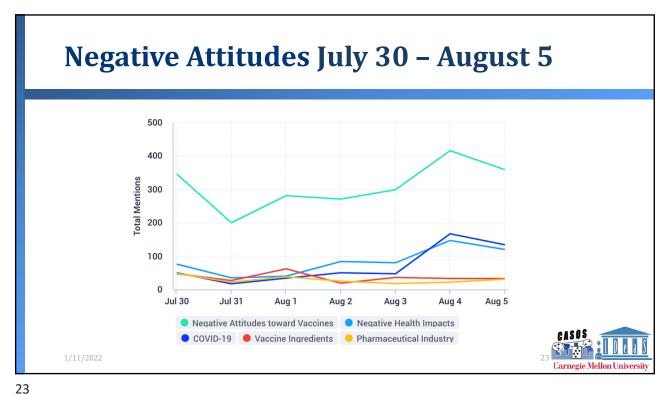
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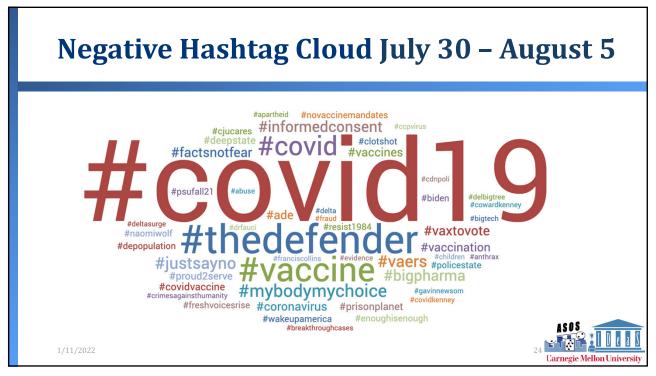
Trending PA tweets July 30 - August 5





Top PA Twitter Authors July 30 - August 5 By mentions By influence @prpeep @6abc @blyntjames @fox29philly @erin_vmd @malcolmnance @kirkturner777 @nbcphiladelphia @ericfisher @cdekeane @louisrbridgema3 @accuweather @susiem57 @phillyinquirer @bob_levitt @sleepskee @chris_1791 @wpxi @dhladylaw @cbsphilly 1/11/2022





Trending negative PA stories July 30 – August 5

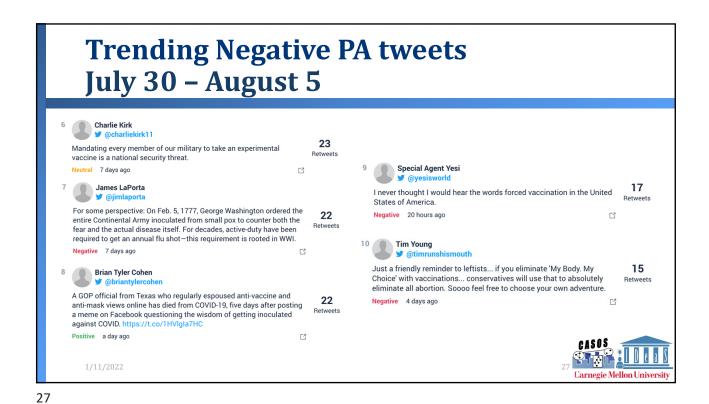
- □<u>rumble.com</u> DEADLY SHOTS! Former Pfizer Employee Confirms Poison in COVID 'Vaccine' (60 Mentions)
- □<u>rumble.com</u> VAXX POISON (55 Mentions)
- □ <u>thedailybeast.com</u> Texas GOP Official Mocked COVID Five Days Before He Died of Virus (48 Mentions)
- □ childrenshealthdefense.org Sign Up for our Free News and Updates! (24 Mentions)
- □ <u>sharylattkisson.com</u> Covid-19 natural immunity compared to vaccine-induced immunity: The definitive summary (23 Mentions)
- inquirer.com Penn State faculty push for mandatory vaccinations days after a second student dies (14 Mentions)

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Trending Negative PA tweets July 30 – August 5

jary 50 magas	• •		
Marjorie Taylor Greene Marjorie Taylor Greene Marjorie Taylor Greene Marjorie Taylor Greene			
I have talked to multiple women who say they miscarried healthy pregnancies after taking the #COVID19 vaccine. Not only miscarr	riages, 49	Robert Picardo Grobertpicardo	
but also reporting blood clots and heavy & irregular periods after the Experimental Use Covid vaccine. Stop vaccine mandates!	taking	I'm offering a free signed photo to: 1) Any unvaccinated @StarTrek fan who got/gets vaxxed 27JUL-5AUG (within 10 days after my 27JUL	39
The Daily Beast determined the dete		challenge tweet) 2) The first 20 fans who convince a friend to get vaxxed by 5 AUG 3) Chosen at random- 5 fans who RT this and are ALREADY vaxxed	Retweets
A GOP official from Texas who regularly espoused anti-vaccine and anti-mask views online has died from COVID-19, five days after pos a meme on Facebook questioning the wisdom of getting inoculated against COVID. https://l.co/VQCkdi3.JdY	sting 48	Positive 4 days ago 5 David Turner ** ### @dayelturner	
Positive 2 days ago	C3	@American_Heart My son has been in the ICU for myocarditis, chest	
Sophie Rapp Sophiesrapp		pain, and elevated troponin from the 2nd dose for past 3 days. Docs say they've seen ~60 other boys w the same. Who's paying for the ~100k bill and possible heart damage from this experimental vaccine?	34 Retweets
Cost of average hospitalization for COVID: \$51,000 (+++) Cost of vaccine: FREE	45 Retweets	https://t.co/jUmiRin26G Negative 2 days ago	
Neutral 5 days ago	ď		
	tion if the comme	nts on that post were expressing criticism of that post.	I De a S
1/11/2022		Carnegie Me	llon University



Top PA Negative Twitter Authors July 30 – August 5

By mentions	By influence
@deplorablewill3	@malcolmnance
@wishbone1227	@phillyinquirer
@susiem57	@phillydailynews
@mmmmechtwaar	@factcheckdotorg
@christi06249366	@pahealthdept
@mishao1989	@qtrresearch
@stahlzart	@juliocesarrivas
@jerseyshorelisa	@tweetorstfu
@jwetzel70	@eric_kavanagh
@kevskewl	@bigjoebastardi

*support for vaccines may appear in this section if the comments on that post were expressing criticism of that post.

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General Trends

- ☐ This week's data shows the overall population concern with mask mandates since now masks are recommended for everybody again. That demonstrates a need for more explanations of that requirement by the health workers;
- □ Vaccine passports narrative is back to the main list of vaccine hesitancy discourses on Twitter that illustrates the overall concern with vaccination requirements;
- ☐ More efforts to politicize vaccination are identified. VaxToVote trend was started by Donald Trump Jr. who proposed vaccination requirements in order to be allowed to vote in election. The idea was supported by both sides of the U.S. political spectrum, although each group sees disadvantages for the other;
- □ This week's disinfo story (rumble.com DEADLY SHOTS! Former Pfizer Employee Confirms Poison in COVID 'Vaccine') again illustrates a disinformation campaign about Pfizer vaccine that the health workers could address in communication with their patients;
- □ The other trending story (https://cnb.cx/2Wv0nJM Breakthrough Covid cases: At least 125,000 fully vaccinated Americans have tested positive) presents an example of negative framing that could be addressed (e.g. in comparison with this story https://trib.al/jrExoEW Chart: Less than 0.1% of vaccinated Americans tested positive for COVID-19).

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For More Information

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- CASOS website http://www.casos.cs.cmu.edu/
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- ☐ Twitter: @IDeaSCMU
- ☐ YouTube: <u>IDeaS Center</u>
- ☐ Ask to be on our Email-Distro Lists

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