PA Vaccine Conversations and Misinformation on Twitter

Iuliia Alieva, Dawn Robertson, Dr. Kathleen M. Carley Vaccine Hesitancy Project Update based on August 6 - August 12, 2021

The CMU centers for:

Informed DEmocracy And Social cyber-security

Computational Analysis of Social and Organizational Systems



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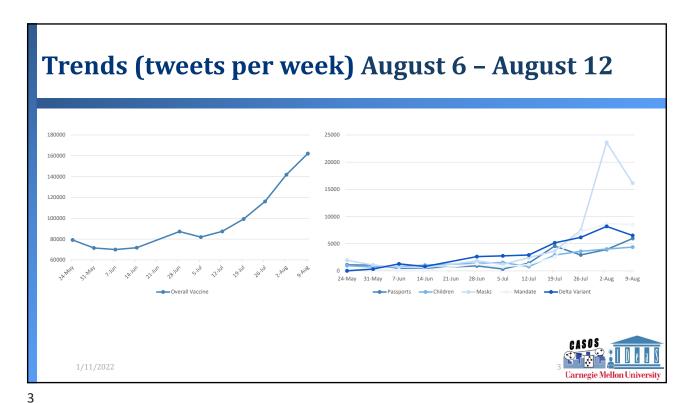
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PA Vaccine Conversation Project

- ☐ 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 August 6 – August 12

| | Total PA | Philade | elphia | Pittsb | urgh | Er | ie | Allentown | /Bethlehem | Ot | her |
|-------------------|----------|---------|--------|--------|-------|--------|-------|-----------|------------|--------|-------|
| Conversation | Tweets | Tweets | % | Tweets | % | Tweets | % | Tweets | % | Tweets | % |
| Overall Vaccine | 162143 | 96818 | 59.7% | 33557 | 20.7% | 1467 | 0.9% | 25751 | 15.9% | 4550 | 2.8% |
| | | | | | | | | | | | |
| Vaccine Passports | 5925 | 3146 | 3.2% | 1483 | 4.4% | 62 | 4.2% | 1143 | 4.4% | 91 | 2.0% |
| Not FDA Approved | 1257 | 680 | 0.7% | 257 | 0.8% | 16 | 1.1% | 266 | 1.0% | 38 | 0.8% |
| Boosters | 1298 | 718 | 0.7% | 261 | 0.8% | 11 | 0.7% | 256 | 1.0% | 52 | 1.1% |
| Misinfo: Shedding | 58 | 40 | 0.0% | 4 | 0.0% | 2 | 0.1% | 11 | 0.0% | 1 | 0.0% |
| "Experimental" | 1106 | 626 | 0.6% | 209 | 0.6% | 13 | 0.9% | 238 | 0.9% | 20 | 0.4% |
| Children | 3306 | 1809 | 1.9% | 664 | 2.0% | 47 | 3.2% | 693 | 2.7% | 93 | 2.0% |
| Myocarditis | 116 | 62 | 0.1% | 26 | 0.1% | 1 | 0.1% | 25 | 0.1% | 2 | 0.0% |
| Heart | 1322 | 718 | 0.7% | 303 | 0.9% | 13 | 0.9% | 252 | 1.0% | 36 | 0.8% |
| Masks | 16029 | 9047 | 9.3% | 3152 | 9.4% | 196 | 13.4% | 2874 | 11.2% | 760 | 16.79 |
| Infertility | 49 | 31 | 0.0% | 6 | 0.0% | 1 | 0.1% | 9 | 0.0% | 2 | 0.0% |
| Mandates | 8467 | 5010 | 5.2% | 1388 | 4.1% | 84 | 5.7% | 1718 | 6.7% | 267 | 5.9% |
| Natural Immunity | 1392 | 925 | 1.0% | 227 | 0.7% | 3 | 0.2% | 224 | 0.9% | 13 | 0.3% |
| Efficacy | 397 | 196 | 0.2% | 72 | 0.2% | 4 | 0.3% | 114 | 0.4% | 11 | 0.2% |
| Spike Proteins | 247 | 182 | 0.2% | 32 | 0.1% | 3 | 0.2% | 29 | 0.1% | 1 | 0.0% |
| Delta Variant | 8655 | 5087 | 5.3% | 1523 | 4.5% | 63 | 4.3% | 1640 | 6.4% | 342 | 7.5% |
| Race | 2977 | 1963 | 2.0% | 467 | 1.4% | 23 | 1.6% | 452 | 1.8% | 72 | 1.6% |
| Ivermectin | 191 | 90 | 0.1% | 47 | 0.1% | 6 | 0.4% | 46 | 0.2% | 2 | 0.0% |
| Military | 1960 | 1286 | 1.3% | 278 | 0.8% | 20 | 1.4% | 328 | 1.3% | 48 | 1.1% |
| Breakthrough | 1289 | 748 | 0.8% | 232 | 0.7% | 10 | 0.7% | 259 | 1.0% | 40 | 0.9% |

- 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 August 6 - August 12

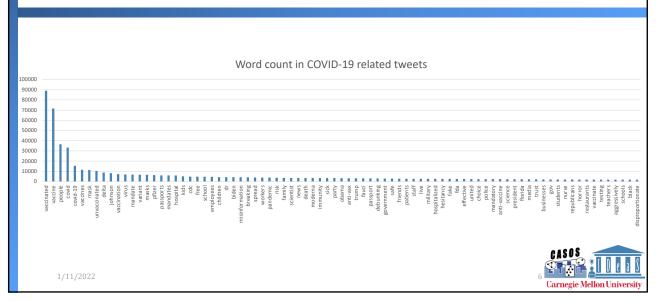
| County | Allegheny | Beaver | Butler | Cambria | Fayette | Indiana | Somerset | Westmoreland |
|-------------------|-----------|--------|--------|---------|---------|---------|----------|--------------|
| Overall Vaccine | 34219 | 44 | 138 | 67 | 79 | 20 | 7 | 111 |
| | | | | | | | | |
| Vaccine Passports | 1495 | 1 | 6 | | 3 | | | |
| Not FDA Approved | 266 | 2 | | | | | | |
| Boosters | 269 | | | 1 | | | | 2 |
| Misinfo: Shedding | 4 | | | | | | | |
| "Experimental" | 215 | | 3 | | | | | 1 |
| Children | 673 | | 4 | 1 | 1 | | | 3 |
| Myocarditis | 27 | | | | | | | |
| Heart | 305 | | 1 | | | | | |
| Masks | 3273 | 8 | 19 | 20 | 15 | 3 | 1 | 18 |
| Infertility | 7 | | | 1 | | | | |
| Mandates | 1421 | 2 | 6 | 1 | 5 | 1 | 1 | 5 |
| Natural Immunity | 233 | | 3 | | | | | |
| Efficacy | 74 | | | | | | | 1 |
| Spike Proteins | 32 | | | | | | | |
| Delta Variant | 1562 | 4 | 12 | 12 | 8 | 1 | | 6 |
| Race | 473 | | 1 | | 1 | | | |
| Ivermectin | 47 | | | | | | | |
| Military | 284 | 1 | 1 | 1 | 1 | 1 | | 2 |
| Breakthrough | 236 | 3 | 1 | | | 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 August 6 - August 12



Top Hashtags by County August 6 - August 12

☐ We've checked hashtags in several counties such as Allegheny, Butler, Cambria, Fayette, Lackawanna, Luzerne, Monroe, 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 | Cambria | Fayette | Lackawanna | Luzerne | Monroe | West Moreland |
|-----------------------------|-------------------------|---------------------|-----------------------|-----------------------------------|---------------------|------------------|-------------------------|
| covid19 (1054) | covid19 (4) | desantisvariant (7) | Covid19 (2) | Covid19 (1) | Trumpvirus (5) | deltavariant (4) | covid19 (9) |
| healthcarefreedo m (363) | Covidvaccin e (2) | maskup (5) | Scaredvaccin ated (2) | gotmyshotpa (1) | covidvaccine (1) | breaking (2) | Deltavariant (2) |
| Getvaccinated (360) | fauci (2) | abbottvariant (2) | antimask (1) | kickcovid19communi tycorps (1) | donotcomply (1) | antivax (1) | soulslosttocovid (2) |
| Choosefreedom (340) | naturalimm unity (2) | Getvaccinated (1) | antivaxx (1) | mandatoryvaccinatio ns (1) | italy (1) | covid (1) | theysurvivedcovid (1) |
| Covidvaccine (333) | covidiots (1) | covid19 (1) | covid (1) | vaccinessavelives (1) | Vaccinepassport (1) | delta (1) | stopthespread (1) |

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Top Hashtags by City August 6 - August 12

☐ 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 (1644) + covid (458) | Covid19 (357) + covid (107) | covid19 (343) + covid (121) | covid19 (1044) + covid (213) | covid19 (34) + covid (7) | covid19 (637) | covid19 (108) + covid (24) |
| Getvaccinated (485) | Getvaccinated (100) | Deltavariant (72) | Healthcarefreedom (363) + choosefreedom (340) | getvaccinated (17) | getvaccinated (118) | Getvaccinated (35) |
| Deltavariant (299) | Deltavariant (85) | getvaccinated (71) + vaccinated (47) | Getvaccinated (358) | Deltavariant (7) | Deltavariant (115) | Deltavariant (31) |
| Healthcarefreedom (146) | Vaccinepassport (52) | Pfizer (46) | Deltavariant (134) | Covidiots (4) | Vaccinepasspor t (56) | Desantisvariant (12) |
| Pfizer (123) | Pfizer (43) | Mylettertorepublica ns (40) | psakibomb (89) | vaccinessavelives (4) | pfizer (49) | healthcarefreedo m (10) |

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| Top UF | RLs by C | ounty Au | ıgust 6 - | - August | 12 |
|--|--|--|--|---|---|
| Allegheny | Butler | Cambria | Fayette | Lackawanna | Luzerne |
| https://www.thedailybeast.com/anti- waxx-radio-host-and-former-newsmax- anchor-dick-farred-fleso-f-coronavirus Anti-Vax Radio Host Who Called Fauci a 'Power Tripping Lying Freak' Dies of COVID (396) | https://cbsloc.al/3vyVf5x Pittsburgh Diocese Urging Mask- Wearing, Vaccinations For Catholics (2) | http://onward.st/2VzsRIB James Franklin 'Pleading' With Penn State Fans To Get Vaccinated (1) | https://www.newsweek.com/ihu- covid-researcher-predicts-lambda- variant-will-run-problem-us- 1616658 JHU COVID Researcher Predicts Lambda Variant Will 'Run Into a Problem' in the U.S. (2) | https://www.jpost.com/breaking- news/pfizer-ceos-israel-visit- cancelled-because-he-is- unvaccinated-report-661100 Pfizer CEO's Israel visit canceled because he is not fully vaccinated (2) | https://fox56.com/news/local/organizations- react-to-vaccine-or-test-requirement-by- governor-wolf Organizations react to 'vaccine or test' requirement by Governor Wolf (2) |
| https://trib.al/ds4AffU Anti-vax nurse injects 8,600 with saline instead of COVID vaccine: police (284) | https://pittsburgh.cbslocal.com/ 2021/08/07/spork-bloomfield- pittsburgh-will-require-proof-of- covid-19-vaccine/ Popular Bloomfield Restaurant Spork To Require Proof Of COVID-19 Vaccination And Masks (2) | https://apple.news/AmgIV8FUETK2a HIN72Q OUM Highly Vaccinated States Keep Worst Covid-19 Outcomes in Check as Delta Spreads, WSJ Analysis Shows (1) | https://www.reuters.com/world/e urope/suspected-saline-switch- sparks-vaccine-stir-germany-2021- 08-10/ Suspected saline switch sparks vaccine stir in Germany (2) | http://apne.ws/VVWw96Vh Foods, Microsoft to require vaccination for US workers (1) | https://abcn.ws/3iz78EQ Protests against mandated COVID-19 vaccines pop up across US (1) |
| https://summit.news/2021/08/11/study- finds-most-highly-educated-americans- are-also-the-most-vaccine-hestant/Study Finds Most Highly Educated Americans Are Also the Most Vaccine Hesitant (249) | http://a.msn.com/05/en- us/AAMZI/f7ocid=st Doctor who did early research on COVID vaccine: this is not a pandemic of the unvaccinated (1) | httis://news.valnox.com/florida- doctors-exhausted-angrv-states- 141507568 htmlf/soc_sres-ocial- sh6soc_tris-twiktsrc-twit Florida doctors are exhausted and angry as the state's COVID-19 surge unleashes pandemonium inside hospitals: 'Humanly, you just break at some point' (1) | http://a.msn.com/01/en- us/AAMWsTM7ocid=st Anti-vax Virginia couple gets home detention on Capitol riot charge (1) | http://dlvr.it/SSDkSt The family of an unvaccinated Florida man who died of COVID before he could get a shot will hold a vaccine and testing site at his funeral (1) | https://bit.ly/37v3Bit Vaccine Passports Are Nothing New. Travelers Already Use Them. (1) |
| https://breaking911.com/vaccinated- west-virginia-man-dies-of-covid- health-department-says/ Vaccinated West Virginia Man Dies of COVID, Health Department Says (227) | http://apne.ws/WFjxCxh misrepresent Pfizer data on vaccine efficacy (1) | https://thehill.com/policy/transportat ion/566849-missouri-taxi-company- refuses-vaccinated-masked- customers Missouri taxi company refuses vaccinated, masked customers (1) | http://hill.cm/c5SO3B1 Podcast king Joe Rogan says vaccine passports move US 'closer to dictatorship' (1) | http://dlvr.it/SSGgMW What experts are learning about Lambda, a coronavirus 'variant of interest' (1) | https://bit.ly/3fAhdxH California to Mandate COVID-19 Vaccines for Health Workers (1) |
| https://www.huffpost.com/entry/dick -farrel-newsmar.chipt.wing: scandemic-die-sof- covid n. 610f503e40041d/baaabac6? ncid=engmodushpmg00000004 Ex- Newsmax Host Who Attacked "Lying Freak" Dr. Fauci Over "Scamdemic" Has Died Of COVID (114) | http://hill.cm/vd92nEq Moderna says everyone will need booster shots soon as vaccines wear off (1) | https://twitter.com/Acosta/status/14 24454623994208270 COVID-19 Cases among kids overwhelming Florida hospitals, doctor tells CNN. (1) | https://cnb.cx/2U41/km The social network for doctors is full of vaccine disinformation (1) | http://dlvr.it/55KsQd Rightwing radio host and anti-vaxxer dies of Covid (1) | https://fox56.com/news/local/big-crowds-at- schy/killi-county-fair-doh-sets-up-vaccine-clinic Big crowd at Schuylkill County Fair, DOH sets up vaccine clinic (1) |
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| 10P 01 | LIS by C. | ity Aug | ust 0 | Augu | 3t 12 | |
|--|---|--|---|--|--|---|
| Philadelphia | Chester | Norristown | Pittsburgh | Erie | Allentown/ Bethlehem | Other |
| https://buff.lv/3fWYwof Vocal anti-vaccine broadcaster dies from COVID-19 complications (630) | https://chute.rocks/FsTcRK752f9H A FINAL WARNING TO HUMANITY FROM FORMER PFIZER CHIEF SCIENTIST MICHAEL YEADON (241) | http://www.dailwmail.co.uk/new- /article-2879973/lessica-Mailot- removed-fram-USA-Paintball-fat- shaming-teen-hospitalged-COVID- 19 html Fitness trainer Jessica Mailot is booted from Team USA Paintball after "fat-shaming high school football star," 7in hospital with COVID by saying 'he doesn't need a vaccine, he needs a f**ing treadmill (149) | https://www.thedailybeast .com/anti-vaxx-radio-host- and-former-newmax- anchor-dick-farrel-dies-of- coronavirus Anti-Vax Radio Host Who Called Fauci a 'Power Tripping Lying Freak' Dies of COVID (396) | http://vaccines.gov (6) | https://www.joost.com/breaking.news/pfizer- ceo-israel-visit-cancelled-because-he-is- umacrioated-report-661100 Pizer CEO's Israel visit canceled because he is not fully vaccinated (85) | https://on.wsi.com/2XfeuDH Vaccination Status Has Americans Picking Sides (13) |
| http://vaccines.gov (484) | https://abcn.ws/2VGKKZi COVID-19 live updates: Florida, Texas account for nearly 40% of new hospitalizations (76) | https://ktvo.com/news/local/afte r-legal-threat-2-kirksville-dental- students-dont-have-to-get- mandatory-covid-vaccine After legal threat, 2 Kirksville dental students don't have to get mandatory COVID vaccine (92) | https://trib.al/ds4AffU Anti-vax nurse injects 8,600 with saline instead of COVID vaccine: police (283) | https://www.ipost.com/breaki ng-news/pfizer-ceos-israel- visit-cancelled-because-he-is- unvaccinated-report-661100 Pfizer CEO's Israel visit canceled because he is not fully vaccinated (6) | https://www.thedailybeast.com/anti-vaxx. radio-host-and-former-newsmax-anchor-dick- farrel-dies-of-coronavirus_Anti-Vax Radio Host Who Called Faud a "Power Tripping Lying Freak" Dies of COVID (67) | http://vaccines.gov (10) |
| https://trib.al/ds4AffU_Anti-vax.nurse injects 8,600 with saline instead of COVID vaccine: police (325) | http://vaccines.gov (49) | https://www.israelnationalnews.c om/News/News.aspx/309762 Natural infection vs vaccination: Which gives more protection? (60) | https://summit.news/2021/08 /11/study-finds-most-highly- educated-americans-are-also- the-most-vaccine- hesitant/Study Finds Most Highly Educated Americans Are Also the Most Vaccine Hesitant (249) | http://apne.ws/nXvbXNW COVID-19: Delta infections may produce similar virus levels regardless of vaccination status, early analysis suggests (6) | https://on.wsi.com/2XfeuDH Vaccination Status Has Americans Picking Sides (66) | https://twitter.com/therecot/ /status/14229759612351692 Gov. Ron DeSantis (R-FL) complains that "Joe Biden ha taken to himself to try to sing out Florida over COVID." (9) |
| 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 (249) | https://www.thedailybeast.com/anti- -vaxx-radio-host-and-former- newsmax-anchor-dick-farrel-dies-of- coronavirus. Anti-Vax Radio Host Who Called Fauci a 'Power Tripping Lying Freak' Dies of COVID (42) | http://vaccines.gov (47) | https://breaking911.com/v accinated-west-virginia- man-dies-of-covid-health- department-says/ Vaccinated West Virginia Man Dies of COVID, Health Department Says (227) | https://www.thedailybeast.co m/anti-vaxx-radio-host-and- former-newsmax-anchor-dick- farrel-dies-of-coronavirus Anti- Vax Radio Host Who Called Fauci a 'Power Tripping Lying Freak' Dies of COVID (5) | https://www.dailymail.co.uk/health/article- 9861829/Fauci-fears-new-vaccine-resistant Codd-variant emerge-predicts-cases-hit-2006- day html Now Dr. Fauci says he fears vaccine- resistant COVID variant could emerge this fall and warns US is 'in trouble' - a day after saying the nation is on same 'Inejectory' as UK where cases have DECLINED (66) | https://www.thedailybeast.c m/anti-vaxx-radio-host-and- former-newsmax-anchor-dic farrel-dies-of-coronavirus A Vax Radio host Who Called Fauci a 'Power Tripping Lying Freak' Dies of COVID (8) |
| https://www.thedailybeast.com/anti-vaxx- radio-host-and-former-newsmax-anchor- dick-farrel-dies-of-coronavirus Anti-Vax Radio Host Who Called Fauci a 'Power Tripping Lying Freak' Dies of COVID (209) | https://www.bitchute.com/video/FP ehpffTleDo/ DR. MIKE YEADON, FORMER PFIZER VP LATEST MESSAGE - EVERYONE MUST LISTEN (41) | http://news.sky.com/story/covid- 19-delta-infections-produce- similar-levels-of-virus-regardless- of-vaccination-status-suggests- early-analysis-12374244 COVID- 19- Delta infections may produce similar virus levels regardless of vaccination status, early analysis suggests (44) | https://www.huffpost.com /entry/dick-farrel- newsmax-right-wing- scamdemic-dies-of- covid n. 610/5003-e40-041 // baaabac67-oid-enemodu shmup00000004 Ex- Newsmax Host Who Attacked 'Lying Freak' Dr. Fauci Over 'Scamdemic' Has Died Of COVID (114) | http://erie.gov/vax (4) | http://vaccines.gov (62) | https://trib.al/ds4AffU Anti- nurse injects 8,600 with salir instead of COVID vaccine: police (7) |

Top Influencers by County August 6 - August 12

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

| Allegheny | Butler | Cambria | Fayette | Lackawanna | Luzerne | Monroe | West Moreland |
|----------------|-------------------|-------------------------------|----------------|---------------|----------------|-----------------|------------------|
| QasimRashid | The Dan Kingerski | onepatriotchi ck (antivax) | VincentMTiberi | AFTunion | FOX56WOLF | DocTooch | MartyGriffinKD |
| z_mccoy06 | DWBerkley | Zeskaroo | KodyRinehart | ryancoyle35 | metsno1fan | NASCARonReddit | JeremyHanscom6 |
| KDKA | terrelldsmith | rumbunter | BroncoBaby10 | jameseshelman | BigDan5309 | ARaj_Energy | gillie |
| SamlAm1985CA | MikeSchnelle | NicoleFuschino | BishyBooBoo | AFTPA | MelanieZayastv | th3italianpanda | MCipriani_WTAE |
| mattfreedpghpg | MelindaKDKA | realjasonstru | mommydog67 | cathyde | jtheller2 | SICKemAJ | gillian19 |

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



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Top Influencers by City August 6 - August 12

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

| Philadelphia | Chester | Norristown | Pittsburgh | Erie | Allentown/ Bethlehem | Other |
|-----------------|---------------------------------------|-----------------|--------------|----------------|-------------------------|---------------|
| CNN | JakeLobin | Cleavon_MD | QasimRashid | DBChirpy | realTuckFrumper | tundeolaniran |
| 6abc | drcraigwax | ElectionWiz | z_mccoy06 | ETNreisenweber | ClaudetteGGibs1 | POTUS |
| PHLPublicHealth | sclagmen (antivax, conspiracy spread) | Matthew_4_Trump | KDKA | ErieNewsNow | Out5p0ken | Mavumavu91 |
| FOX29philly | | Flattielover | SamlAm1985CA | ECDOH | LouisRBridgema3 | JackPosobiec |
| PhillyInquirer | SicarioScott | goodblackdude | ezralevant | ParisSaid_ | Kimberl19156775 | catturd2 |

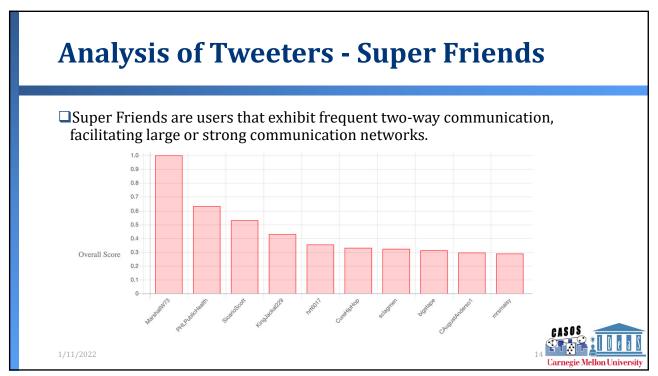
*influencers are defined as accounts with tweets often spread by others (ordered by out-degree centrality)

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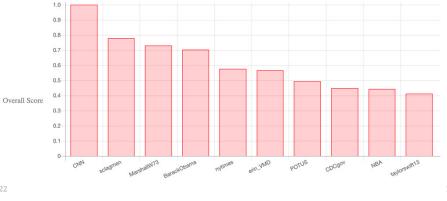
Analysis of Tweeters - Super Spreaders Super Spreaders are users which generate content that is shared often, and hence spread information effectively.

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Analysis of Tweeters - 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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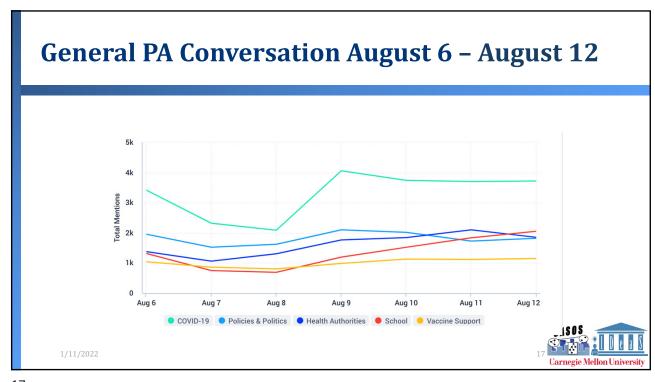
Accounts Referenced by the Most Tweets

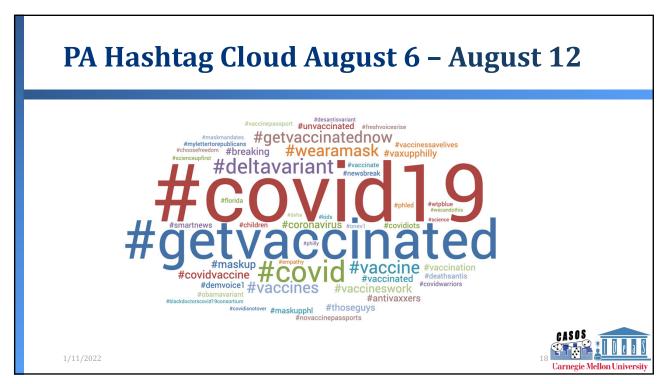
☐ This shows the tweeters that are most often referenced (e.g. mentioned) in PA tweets. Value is the number of tweets that reference the agent.

| CDCgov POTUS | 1,183 1,034 873 |
|------------------------|-----------------------|
| | |
| <u>POTUS</u> | 072 |
| | 8/3 |
| <u>GovernorTomWolf</u> | 810 |
| <u>CNN</u> | 692 |
| <u>GovRonDeSantis</u> | 671 |
| <u>JackPosobiec</u> | 631 |
| Mavumavu91 | 569 |
| <u>FoxNews</u> | 565 |
| <u>RealCandaceO</u> | 558 |



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Trending PA stories August 6 - August 12

- □ <u>Vaccines.gov</u> Find COVID-19 vaccine locations near you (376 Mentions)
- ■thedailybeast.com Anti-Vaxxer Florida Radio Host and Former Newsmax Anchor Dies of COVID (155 Mentions)
- <u>phila.gov</u> Protect yourself and others from Delta: masks required indoors and at large outdoor gatherings in Philadelphia | Department of Public Health (134 Mentions)
- □theatlantic.com 90,000 Students, Vaccines Optional (73 Mentions)
- nypost.com Anti-vax nurse injects 8,600 with saline instead of COVID vaccine (95 Mentions)
- □<u>realrawnews.com</u> Marines Rebuke Def. Sec.: "No Mandatory Vaccinations for My Marines." (59 Mentions)

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Trending PA tweets August 6 - August 12

Ashish K. Jha, MD, MPH
@ashishkjha

Today, the 5 most vaccinated states (14M people) had 580 people in hospital, 12 deaths In the 5 least vaccinated states (16M people)? 6,600 hospitalized, 104 deaths Per capita, least vaccinated states have 10X hospitalizations and 7X deaths So yeah, vaccines are working

© @taratesoro

CDC disclosed that it's still a possibility for the vaccinated to get covid, however the vaccine would make the symptoms WAY LESS SEVERE. like what abt that don't y'all understand... IT WAS NEVER A SECRET THAT THE VACCINATED COULD STILL CONTRACT COVID

404 Retweets

tunde olaniran

dundeolanira

this scientist debunking vaccine misinformation is giving $\label{eq:https://t.co/mj9E6wnMCx} {\tt https://t.co/mj9E6wnMCx}$

502 Retweets

555

Retweets

Poppa Cinco
 @jaredj5

No lie if somebody I knew told me they bought a fake vaccination card I wouldn't talk to them for the rest of my life

370 Retweets

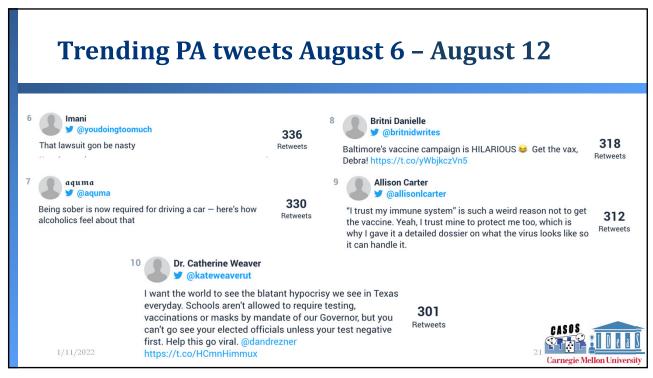
Jake Lobin

Jakelobin

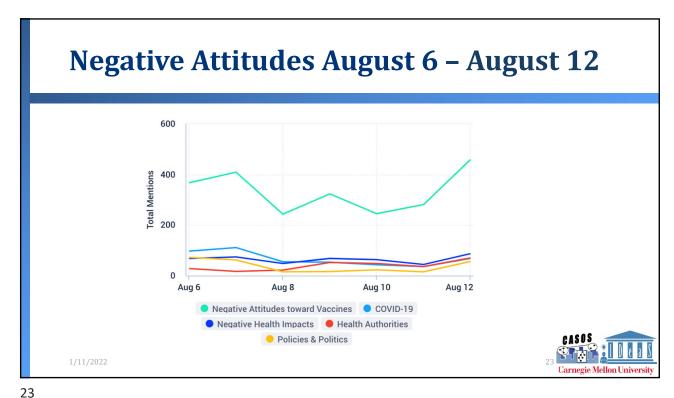
Average COVID hospital stay: \$73,300 Average vaccine: \$0.00 Retweets

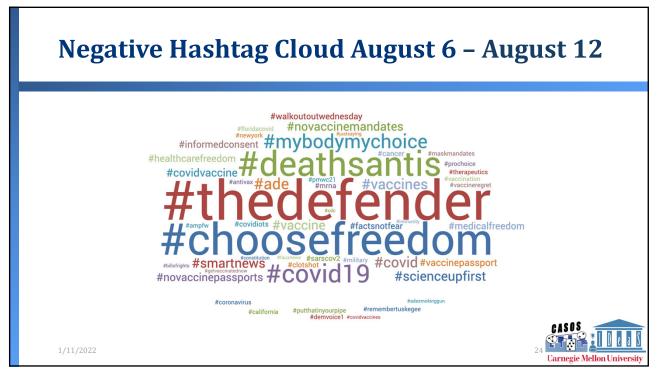
346





Top PA Twitter Authors August 6 - August 12 By mentions By influence @erin_vmd @questlove @iridescentashes @6abc @prpeep @malcolmnance @blyntjames @fox29philly @louisrbridgema3 @accuweather @cdekeane @nbcphiladelphia @dhladylaw @ericfisher @btilma @brithume @bob_levitt @phillyinquirer @chris_1791 @danieljgillies 1/11/2022





Trending Negative PA stories August 6 - August 12

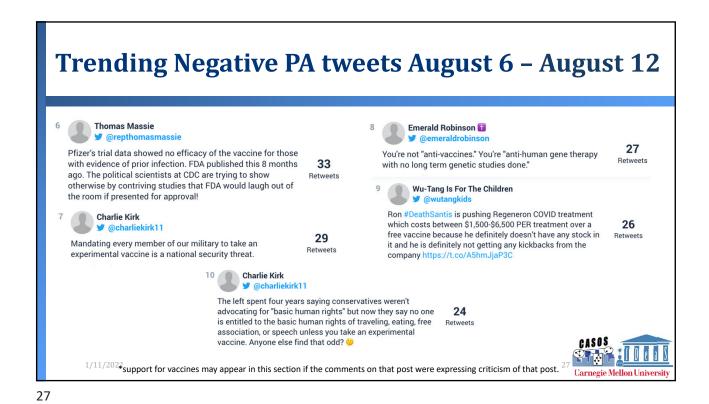
- □ <u>rawstory.com</u> Right-wing shock jock dies from COVID-19 weeks after he called vaccines 'poison' (43 Mentions)
- □ childrenshealthdefense.org Sign Up for our Free News and Updates! (41 Mentions)
- □<u>rumble.com</u> VAXX POISON (26 Mentions)
- □ childrenshealthdefense.org Exclusive Interview: Mom Whose 14-Year-Old Son Developed Myocarditis After Pfizer Vaccine No Longer Trusts CDC, Public Health Officials (21 Mentions)
- □ thehill.com Texas Republican leader dies of COVID-19 five days after (19 Mentions)
- ghionjournal.com The Smoking Jab: Fauci and the NIH Knew Covid-19 "Vaccines" Could Lead to Antibody-Dependent Enhancement (18 Mentions)

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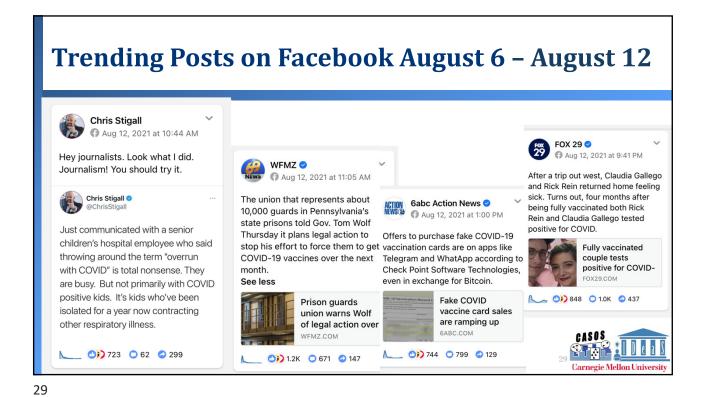
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Trending Negative PA tweets August 6 - August 12

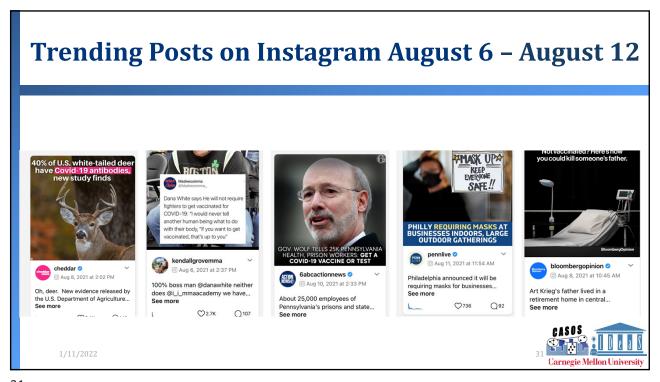


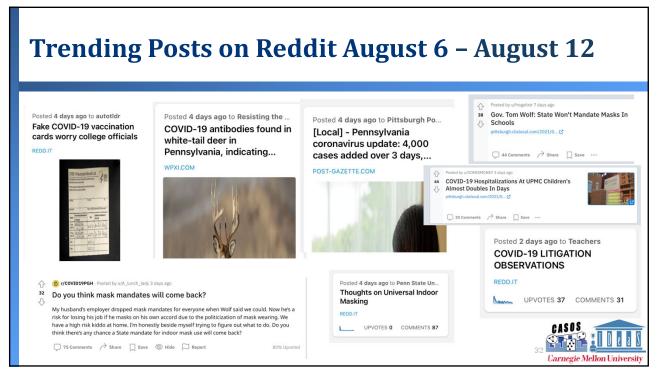


Top PA Negative Twitterers August 6 - August 12 By mentions By influence @deplorablewill3 @malcolmnance @dc demented @fox29philly @kevskewl @chuckwendig @jwetzel70 @factcheckdotorg @tackingcaleuche @burtonbrown @christi06249366 @leadershipfreak @mishao1989 @maxkennerly @susiem57 @joebanner13 @tdbgolfer @scottemovienerd @kevincloskey @mattglantz *support for vaccines may appear in this section if the comments on that post were expressing criticism of that post.









General Trends August 6 - August 12

- ☐ This week's data shows the overall population concern with mask mandates as well as other regulations such as required vaccination;
- □ Vaccine passports narrative is back to the main list of vaccine hesitancy discourse issues on Twitter that illustrates the overall concern with vaccination requirements;
- ☐ Fake vaccination cards raise concern on other social media platforms like Reddit and Facebook;
- □ A lot of issues related to the upcoming school year and COVID-19 regulations illustrate population concerns with requirements for vaccination and masks for children and students;
- ☐ Discussion of infected cases among vaccinated vs unvaccinated people, also the 'Big Pharma' conspiracy forms the basis for disinformation raising doubts about vaccine effectiveness;
- More efforts to politicize vaccination are identified. This week's hashtags illustrate the trend (with hashtags like #healthcarefreedom, #choosefreedom demonstrate political divide in addition to #abbottvariant, #desantisvariant, #obamavariant, #psakibomb #MyLetterToRepublicans);
- □ 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.

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For More Information

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

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