

PA Vaccine Conversations and Misinformation on Twitter

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Vaccine Hesitancy Project Update based on November 19 – November 25, 2021

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 about the current pandemic, such as COVID-19 regulations, mandates, masks, pro-and anti-vaccination campaigns, as well as other topics related to COVID-19 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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Report Overview November 12 – November 18

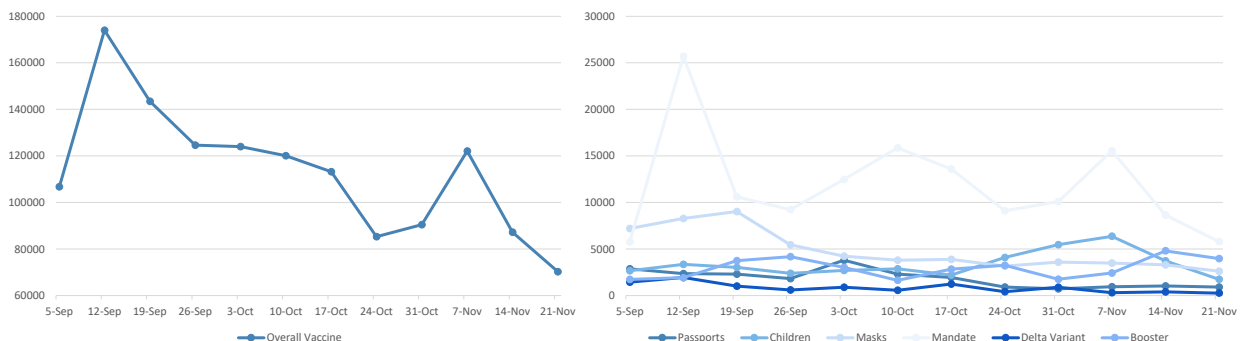
- ❑ This week's trending stories cover vaccination for children, vaccination mandates, sports, boosters, and others;
- ❑ Trending disinformation publications: <https://www.thelastamericanvagabond.com/michael-yeardon-interview-former-pfizer-vp-speaks-out-on-dangers-of-mrna-vaccines-covid-illusion/> Michael Yeadon Interview – Former Pfizer Vp Speaks Out On Dangers Of Mrna Vaccines & Covid Illusion; <http://1000covidstories.com> antivax website; <https://www.nowtheendbegins.com/bill-gates-warns-of-coming-bioterror-attack-then-vials-labeled-smallpox-dryvax-vaccine-found-in-pennsylvania-lab/> JUST DAYS AFTER BILL GATES WARNED OF A COMING SMALLPOX BIOTERROR ATTACK, 15 VIALS LABELED 'SMALLPOX' ARE FOUND IN RESEARCH LAB IN PENNSYLVANIA; <https://thetruthaboutcovidvaccines.com/ex-pfizer-vp-yeardon-warns-children-50-times-more-likely-to-die-from-vaccine-than-virus/> Ex-Pfizer VP Yeadon Warns: Children 50 Times More Likely to Die From Vaccine Than Virus;
- ❑ Other trending stories: <https://www.zerohedge.com/covid-19/fda-wants-until-2076-fully-release-pfizer-vaccine-data-lawsuit> FDA Wants Until 2076 To Fully Release Pfizer Vaccine Data: Lawsuit; <https://aaron.siri.substack.com/p/fda-asks-federal-judge-to-grant-it> FDA Asks Federal Judge to Grant it Until the Year 2076 to Fully Release Pfizer's COVID-19 Vaccine Data; <https://www.cnn.com/2021/11/16/health/smallpox-vials-found/index.html> Vials labeled 'smallpox' found at vaccine research facility in Pennsylvania, CDC says; <http://hill.cm/H1o2dC8> White House tells businesses to move forward with vaccine mandate; <http://apne.ws/WxMQyZq> US opens COVID boosters to all adults, urges them for 50+;
- ❑ Story about experimental chewing gum that reduces COVID-19 spread is popular on Instagram. The gum is being developed at the University of Pennsylvania;
- ❑ Smallpox conspiracy theories are widely spread on Reddit and other social media platforms.

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Trends (tweets per week) November 19 – November 25



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High Level View by City November 19 – November 25

| | Total PA | Philadelphia | | Pittsburgh | | Erie | | Allentown/Bethlehem | | Other | |
|-------------------|----------|--------------|-------|------------|-------|--------|-------|---------------------|-------|--------|-------|
| Conversation | Tweets | Tweets | % | Tweets | % | Tweets | % | Tweets | % | Tweets | % |
| Overall Vaccine | 58928 | 32790 | 55.6% | 14911 | 25.3% | 780 | 1.3% | 8248 | 14.0% | 2199 | 3.7% |
| Vaccine Passports | 886 | 478 | 1.5% | 202 | 1.4% | 19 | 2.4% | 170 | 2.1% | 17 | 0.8% |
| FDA Approval | 467 | 216 | 0.7% | 108 | 0.7% | 4 | 0.5% | 122 | 1.5% | 17 | 0.8% |
| Boosters | 3896 | 2118 | 6.5% | 883 | 5.9% | 42 | 5.4% | 580 | 7.0% | 273 | 12.4% |
| Employees | 1149 | 784 | 2.4% | 144 | 1.0% | 11 | 1.4% | 180 | 2.2% | 30 | 1.4% |
| "Experimental" | 169 | 89 | 0.3% | 32 | 0.2% | 2 | 0.3% | 40 | 0.5% | 6 | 0.3% |
| Children | 1152 | 698 | 2.1% | 238 | 1.6% | 14 | 1.8% | 175 | 2.1% | 27 | 1.2% |
| Myocarditis | 461 | 230 | 0.7% | 182 | 1.2% | | | 47 | 0.6% | 2 | 0.1% |
| Heart | 422 | 223 | 0.7% | 103 | 0.7% | 8 | 1.0% | 79 | 1.0% | 9 | 0.4% |
| Masks | 2578 | 1472 | 4.5% | 436 | 2.9% | 155 | 19.9% | 334 | 4.0% | 181 | 8.2% |
| Thrombosis/VITT | 71 | 39 | 0.1% | 9 | 0.1% | | | 20 | 0.2% | 3 | 0.1% |
| Mandates | 5693 | 3027 | 9.2% | 1046 | 7.0% | 176 | 22.6% | 1247 | 15.1% | 197 | 9.0% |
| Natural Immunity | 448 | 307 | 0.9% | 73 | 0.5% | 5 | 0.6% | 58 | 0.7% | 5 | 0.2% |
| Efficacy | 201 | 103 | 0.3% | 54 | 0.4% | 2 | 0.3% | 40 | 0.5% | 2 | 0.1% |
| Spike Proteins | 53 | 20 | 0.1% | 23 | 0.2% | 3 | 0.4% | 7 | 0.1% | | |
| Delta Variant | 391 | 195 | 0.6% | 83 | 0.6% | 5 | 0.6% | 58 | 0.7% | 50 | 2.3% |
| Race | 1225 | 651 | 2.0% | 348 | 2.3% | 12 | 1.5% | 170 | 2.1% | 44 | 2.0% |
| Ivermectin | 139 | 72 | 0.2% | 41 | 0.3% | | | 23 | 0.3% | 3 | 0.1% |
| Military | 160 | 74 | 0.2% | 44 | 0.3% | 1 | 0.1% | 36 | 0.4% | 5 | 0.2% |
| Breakthrough | 278 | 182 | 0.6% | 40 | 0.3% | 3 | 0.4% | 47 | 0.6% | 6 | 0.3% |

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- Trending conversations:
 - Boosters
 - Employee mandates
- No "omicron" yet
- Overall downward trend in amount of vaccine conversation



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High Level View by County November 19 – November 25

| County | Allegheny | Beaver | Butler | Cambria | Fayette | Indiana | Somerset | Westmoreland |
|-------------------|-----------|--------|--------|---------|---------|---------|----------|--------------|
| Overall Vaccine | 15341 | 27 | 20 | 67 | 22 | 15 | 10 | 62 |
| Vaccine Passports | 205 | | | 3 | | | | |
| FDA | 112 | 1 | | | | | | |
| Boosters | 956 | 3 | 1 | 4 | 3 | 2 | 2 | 5 |
| Employees | 152 | | | | | 1 | | |
| "Experimental" | 35 | | | | | | | 1 |
| Children | 242 | | | | | | | 1 |
| Myocarditis | 182 | | | | | | | 1 |
| Heart | 104 | | | | | | | 2 |
| Masks | 468 | 7 | 2 | 6 | 2 | 1 | | 2 |
| Thrombosis/VITT | 9 | | | | | | | |
| Mandates | 1084 | 1 | | 8 | 2 | 3 | | 9 |
| Natural Immunity | 74 | | | | | | | |
| Efficacy | 54 | | | 1 | | | | |
| Spike Proteins | 23 | | | | | | | |
| Delta Variant | 88 | | | | | 1 | | 1 |
| Race | 362 | | 2 | 1 | 1 | | | 6 |
| Ivermectin | 41 | | | | | | | |
| Military | 45 | | | | | | | |
| Breakthrough | 40 | | | | | | | 1 |

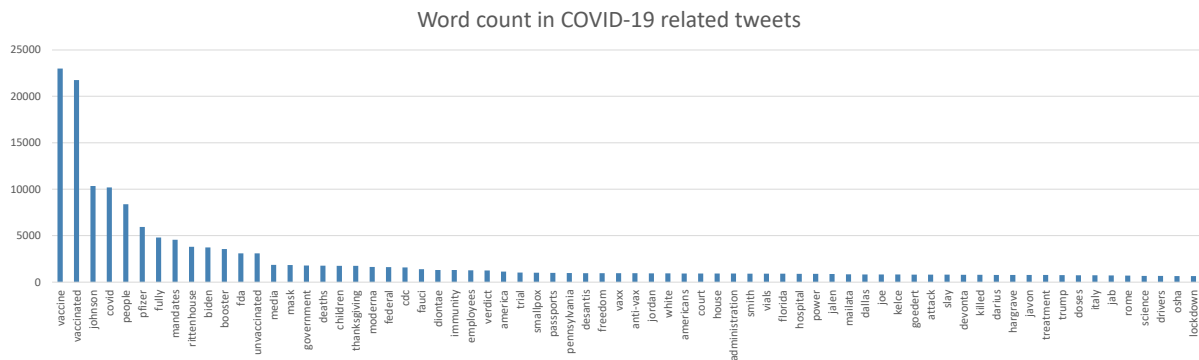
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- Tweets counted here if there is a county location attached
- Race: pulled by one of the vaccine keywords plus at least one other term in ("Black", "African American", "of color", "Latin", "Hispanic", "brown", "eugenic")



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Top Words Used per Week November 19 – November 25



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Top Hashtags by County November 19 – November 25

- ❑ 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 | West Moreland |
|------------------|--------------------|--------------|------------------------|---------------|
| steelers (472) | covid19 (1) | covid19 (3) | boycottcnn (1) | chargers (2) |
| covid19 (441) | boostered (1) | steelers (2) | disgusting (1) | covid19 (2) |
| vaccine (134) | full3rddose (1) | vaxxed (1) | hollywoodhypocrite (1) | steelers (2) |
| herewego (130) | steelersnation (1) | vikings (1) | patriots (1) | breaking (1) |
| johnsonout (100) | vaccination (1) | | unmasked (1) | herewego (1) |

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Top Hashtags by City November 19 – November 25

- 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 (604) | probowlvote (525) | covid19 (146) | steelers (461) | covid19 (28) | covid19 (245) | covid19 (76) |
| vaccine (184) | covid19 (73) | china (62) | covid19 (429) | steelers (14) | vaccine (49) | probowlvote (36) |
| vaxupphilly (175) | billgates (39) | pakistan (61) | probowlvote (166) | breaking (4) | probowlvote (34) | steelers (29) |
| waukesha (112) | covid (17) | vaccine (27) | vaccine (134) | foxnews (3) | misinformation (17) | eagles (18) |
| covid (99) | vaccinated (16) | vaccinated (20) | herewego (129) | history (3) | faucilied (16) | vaccine (15) |

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Top URLs by County November 19 – November 25

| Allegheny | Butler + Beaver | Cambria | Indiana | Fayette | West Moreland |
|---|--|--|---|--|--|
| https://bit.ly/3cxOUhA FDA Produces the First 91+ pages of Documents from Pfizer's COVID-19 Vaccine File (83) | https://alexberenson.substack.com/p/vaccinated-english-adults-under-60?r=mrucv&utm_campaign=post&utm_medium=web&utm_source=copy Vaccinated English adults under 60 are dying at twice the rate of unvaccinated people the same age (2) | https://wjactv.com/news/local/its-my-superpower-9-10-year-old-share-experience-getting-covid-19-vaccine 'It's my superpower: 9 & 10 year old share experience getting COVID-19 vaccine (2) | http://hill.cm/2zsQihO US COVID-19 deaths in 2021 surpass last year's toll (1) | http://apne.ws/ojnyrX4 GOP-majority court chosen to consider Biden vaccine mandate (1) | https://sharylattkisson.com/2021/11/read-warning-heart-risk-measure-dramatically-increases-in-covid-19-vaccinated-patients/ (READ) Cardiologist 'Warning': Heart risk measure 'dramatically' increases in Covid-19 vaccinated patients (1) |
| https://www.cbsnews.com/am/news/ahmaud-arbery-prosecutor-jackie-johnson-charged-obstruction/ Former Georgia district attorney booked on charges of obstructing Ahmaud Arbery case (67) | https://cnb.cx/3ct5dpl All U.S. adults now eligible for Pfizer and Moderna Covid vaccine booster shots after CDC gives final OK (2) | https://www.fda.gov/news-events/press-announcements/coronavirus-covid-19-update-fda-expands-eligibility-covid-19-vaccine-boosters Coronavirus (COVID-19) Update: FDA Expands Eligibility for COVID-19 Vaccine Boosters (2) | https://trib.al/jMA6E1T Fauci says COVID-19 booster might become new standard for being vaccinated (1) | https://anchor.fm/sharise-johnson-moore/episodes/Daily-Devotional---Exodus-2-1-25-e1agu6f Sharise Johnson-Moore's Podcast (1) | https://acasignups.net/21/11/17/red-shift-how-trumps-attempt-let-covid-19-destroy-blue-america-reversed-itself-devastate-RED-SHIFT-How-Trump's-Attempt-To-Let-COVID-19-Destroy-Blue-America-Reversed-Itself-Animated-1 |
| https://www.zerohedge.com/covid-19/fda-wants-until-2076-fully-release-pfizer-vaccine-data-lawsuit FDA Wants Until 2076 To Fully Release Pfizer Vaccine Data: Lawsuit (53) | https://bit.ly/3njQALj Florida Anti-Vaccine Mandate Effort Suffers Blow As Judge Refuses To Block Biden Healthcare Policy (2) | https://cnb.cx/3ct5dpl All U.S. adults now eligible for Pfizer and Moderna Covid vaccine booster shots after CDC gives final OK (1) | https://www.bloomberg.com/opinion/articles/2021-11-22/how-united-airlines-decided-to-lead-on-vaccine-mandates How United Airlines Decided to Lead on Vaccine Mandates (1) | https://share.newsbreak.com/6mi02kd3 AMA warns of severe and irreparable harm if Biden vaccine mandate is halted (1) | https://gettr.com/post/phk0e74de3 "You know who isn't being vaccinated? The Chinese and Russian military." – Dr Lee Merritt (November 16, 2021) (1) |
| https://aaronisiri.substack.com/p/fda-asks-federal-judge-to-grant-it FDA Asks Federal Judge to Grant it Until the Year 2076 to Fully Release Pfizer's COVID-19 Vaccine Data (51) | https://aaronisiri.substack.com/p/fda-asks-federal-judge-to-grant-it Asks Federal Judge to Grant it Until the Year 2076 to Fully Release Pfizer's COVID-19 Vaccine Data (1) | https://nbcnews.to/2Z200YP FDA authorizes Pfizer and Moderna boosters for all adults (1) | https://www.nytimes.com/2021/11/19/us/politics/wisconsin-republicans-decertify-election.html?referringSource=articleShare Wisconsin Republicans Push to Take Over the State's Elections (1) | https://sports.yahoo.com/novak-djokovic-doubt-australian-open-001223014.html Novak Djokovic Australian Open participation in doubt due to vaccine requirement (1) | https://patch.com/pennsylvania/across-pa/biden-vaccine-mandate-businesses-panned-harmful-economy?utm_source=article-mostrecent&utm_medium=rss&utm_term=business&utm_campaign=recirc&utm_content=normal Biden Vaccine Mandate On Businesses Panned As Harmful To Economy (1) |
| http://sarah4.us/new-poll Stand with Sarah Godlewski (48) | https://bit.ly/3cxOUhA FDA Produces the First 91+ pages of Documents from Pfizer's COVID-19 Vaccine File (1) | https://trib.al/GaRtIuv Up to 10,000 to miss Marine Corps vaccine deadline (1) | https://www.washingtonexaminer.com/news/600-plus-google-employees-sign-manifesto-opposing-company-vaccine-mandate 600-plus Google employees sign manifesto opposing company vaccine mandate (1) | https://www.monroecounty.gov/health-covid19-vaccine (1) | https://trib.al/8bf1myT 'Bucs' Antonio Brown accused of obtaining fake vaccine card (1) |

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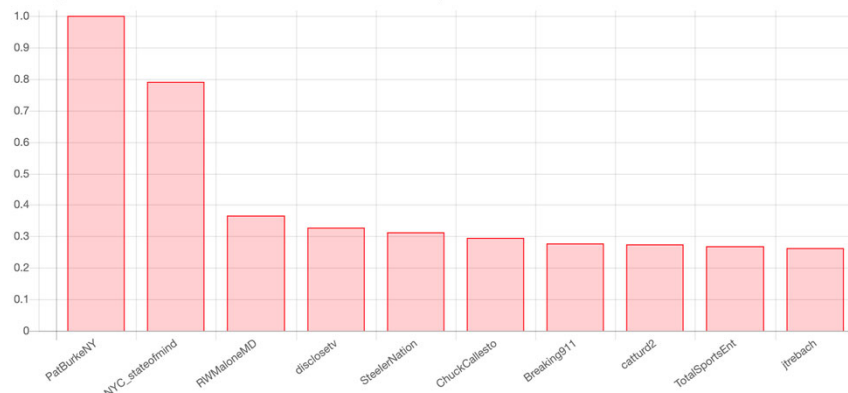
Top URLs by City November 19 – November 25

| Philadelphia | Chester | Norristown | Pittsburgh | Erie | Allentown/ Bethlehem | Other |
|--|---|---|---|---|---|---|
| https://bit.ly/2YVhLZO FDA Asks Federal Judge to Grant it Until the Year 2076 to Fully Release Pfizer's COVID-19 Vaccine Data (78) | https://amp.cnn.com/cnn/2021/11/16/health/smallpox-vials-found/index.html Vials labeled 'smallpox' found at vaccine research facility in Pennsylvania, CDC says (40) | http://1000covidstories.com antivax website (28) | https://bit.ly/3cxOUhA FDA Produces the First 91+ pages of Documents from Pfizer's COVID-19 Vaccine File (83) | http://specne.ws/gNfrYN Erie County implementing mask mandate for all indoor public locations (49) | https://www.zerohedge.com/covid-19/fda-wants-until-2076-fully-release-pfizer-vaccine-data-lawsuit FDA Wants Until 2076 To Fully Release Pfizer Vaccine Data: Lawsuit (57) | http://apne.ws/WxMQyZq US opens COVID boosters to all adults, urges them for 50+ (41) |
| http://vaccines.gov (75) | https://www.cnn.com/2021/11/16/health/smallpox-vials-found/index.html Vials labeled 'smallpox' found at vaccine research facility in Pennsylvania, CDC says (31) | https://www.newsmax.com/newsfront/frozen-vials-smallpox/2021/11/19/ld/1045384/ CDC: Vials Contain No Trace of Virus That Causes Smallpox (28) | https://www.cbsnews.com/amp/news/ahmaud-arbery-prosecutor-jackie-johnson-charged-obstruction/ Former Georgia district attorney booked on charges of obstructing Ahmaud Arbery case (66) | https://www.wivb.com/health/coronavirus/watch-erie-county-to-announce-new-measures-in-response-to-increase-in-covid-19-cases/ Erie County mask mandate for all indoor, public locations takes effect (19) | https://aaronisri.substack.com/p/fda-asks-federal-judge-to-grant-it FDA Asks Federal Judge to Grant it Until the Year 2076 to Fully Release Pfizer's COVID-19 Vaccine Data (42) | http://pa.gov/get-vaccinated (9) |
| https://www.zerohedge.com/covid-19/fda-wants-until-2076-fully-release-pfizer-vaccine-data-lawsuit FDA Wants Until 2076 To Fully Release Pfizer Vaccine Data: Lawsuit (73) | http://bit.ly/3oGeKW6 Vials labelled 'smallpox' found at vaccine research facility in Pennsylvania, CDC says (13) | https://www.theepochtimes.com/cdc-investigating-smallpox-vials-at-vaccine-research-facility-spokesperson_4109260.html CDC Investigating 'Smallpox' Vials at Vaccine Research Facility: Spokesperson (27) | https://www.zerohedge.com/covid-19/fda-wants-until-2076-fully-release-pfizer-vaccine-data-lawsuit FDA Wants Until 2076 To Fully Release Pfizer Vaccine Data: Lawsuit (53) | https://thehill.com/policy/healthcare/582380-fauci-says-babies-and-toddlers-could-be-eligible-for-covid-19-vaccine-by Fauci says babies and toddlers could be eligible for COVID-19 vaccine by early 2022 (4) | https://bit.ly/3cxOUhA FDA Produces the First 91+ pages of Documents from Pfizer's COVID-19 Vaccine File (37) | https://www.foxnews.com/us/on-desantis-legislation-florida-companies-vaccine-mandate-rescind-termination DeSantis bill signed in Brandon forces companies to slam brakes on COVID vaccine mandates (9) |
| https://rumble.com/vpfsib-the-rittenhouse-effect-dinesh-d-souza-podcast-ep221.html THE RITTENHOUSE EFFECT Dinesh D'Souza Podcast Ep221 (71) | https://aaronisri.substack.com/p/fda-asks-federal-judge-to-grant-it FDA Asks Federal Judge to Grant it Until the Year 2076 to Fully Release Pfizer's COVID-19 Vaccine Data (13) | https://www.nowtheendbegins.com/bill-gates-warns-of-coming-bioterror-attack-then-vials-labeled-smallpox-drove-vaccine-found-in-pennsylvania-lab/ JUST DAYS AFTER BILL GATES WARNED OF A COMING SMALLPOX BIOTERROR ATTACK, 15 VIALS LABELED 'SMALLPOX' ARE FOUND IN RESEARCH LAB IN PENNSYLVANIA (24) | https://aaronisri.substack.com/p/fda-asks-federal-judge-to-grant-it FDA Asks Federal Judge to Grant it Until the Year 2076 to Fully Release Pfizer's COVID-19 Vaccine Data (50) | https://www.erieleader.com/article/a-scientific-basis-for-hope A Scientific Basis for Hope (4) | http://vaccines.gov (31) | http://vaccines.gov (8) |
| https://www.thedesertreview.com/opinion/columnists/a-pandemic-of-the-vaccinated-or-ivermectin-ignored/article_2f08e67c-4c89-11ec-8a97-a7954a7ae6d4.html A pandemic of the vaccinated or Ivermectin ignored? (69) | https://www.zerohedge.com/covid-19/fda-wants-until-2076-fully-release-pfizer-vaccine-data-lawsuit FDA Wants Until 2076 To Fully Release Pfizer Vaccine Data: Lawsuit (13) | http://vaccines.gov (20) | http://sarah4.us/new-poll (48) | https://www.wkbw.com/news/coronavirus/erie-county-implements-mask-mandate-to-take-effect-tuesday-as-covid-19-numbers-rise Erie County implements mask mandate to take effect Tuesday as COVID-19 numbers rise (4) | http://hill.cm/H1o2dC8 White House tells businesses to move forward with vaccine mandate (27) | http://www.evanhospital.com/virus/ Coronavirus Update (7) |

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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.

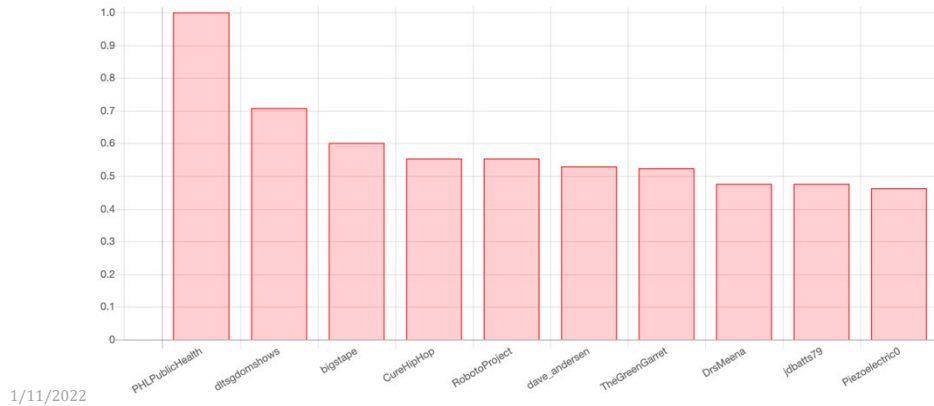


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Analysis of Tweeters - Super Friends

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



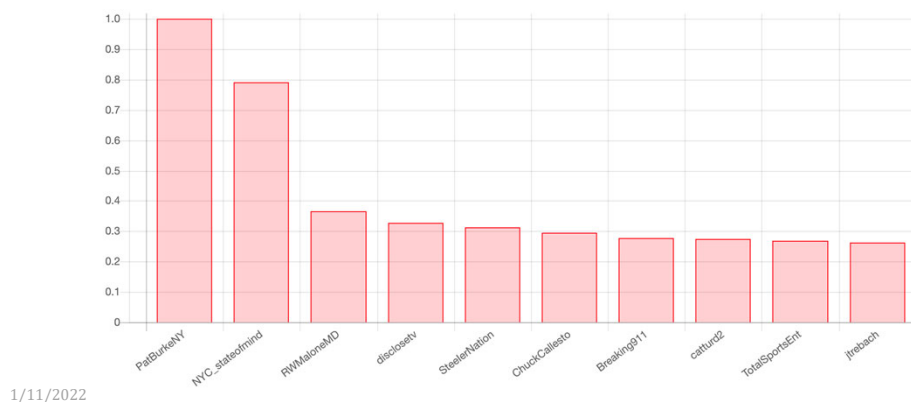
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Analysis of Tweeters - Other Influencers

- 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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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 |
|--------------------------------|-------|
| RWMaloneMD | 685 |
| pfizer | 395 |
| catturd2 | 358 |
| WHCOS | 331 |
| Philsandlenn | 306 |
| CDCgov | 304 |
| SteelerNation | 283 |
| TotalSportsEnt | 282 |
| SNPodcast | 281 |
| Juiceup_3 | 265 |

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Trending Tweets November 19 – November 25

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

- ❑ Rome Italy against the vax mandates <https://t.co/M452qYjslb>
- ❑ if you're at Thanksgiving and someone says their decision to not get vaccinated doesn't affect anyone else, cut your slice of pie like this to demonstrate how that is very untrue <https://t.co/PFq95dJ2vA>
- ❑ #ProBowlVote Jalen Hurts #ProBowlVote Devonta Smith #ProBowlVote Dallas Goedert #ProBowlVote Jason Kelce #ProBowlVote Lane Johnson #ProBowlVote Jordan Mailata #ProBowlVote Javon Hargrave #ProBowlVote Darius Slay 1 RT = 1 Vote for our guys!
- ❑ On Sunday, two days after the Rittenhouse verdict, 5 were killed and 40 injured in a Middle East style terror attack, yet today it is completely out of the news. If you don't think the media has the power to cover up ubiquitous vaccine injury you are not paying attention.
- ❑ I'm introducing a bill that allows insurance providers to deny coverage for Covid related treatment to those who refuse to be vaccinated. Do your part or pay your own way. Freedom isn't free.
- ❑ we all know that the pinks followed protocols and tried to stay safe as possible, and they are all vaccinated. it's just that it's still inevitable to be infected from the virus because simply we can't see it. y'all should understand that and don't blame it to anyone
- ❑ How many liberals are asking managers of grocery stores if the turkeys have been vaccinated?
- ❑ CNN is reporting that hospitalization rates are rising among the vaccinated. Hmmm!
- ❑ BREAKING: President Biden will require essential, nonresident travelers crossing U.S. land borders, such as truck drivers, to be fully vaccinated beginning on Jan. 22 - AP
- ❑ For the 2nd time in 5 days, our ER cared for another little boy for myocarditis. The first one was 8 years old. This time, a 10 year old (boy). Just so we're clear here people, climate change does not cause myocarditis in innocent children. I am in tears

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Trending Posts on Facebook November 19 – November 25

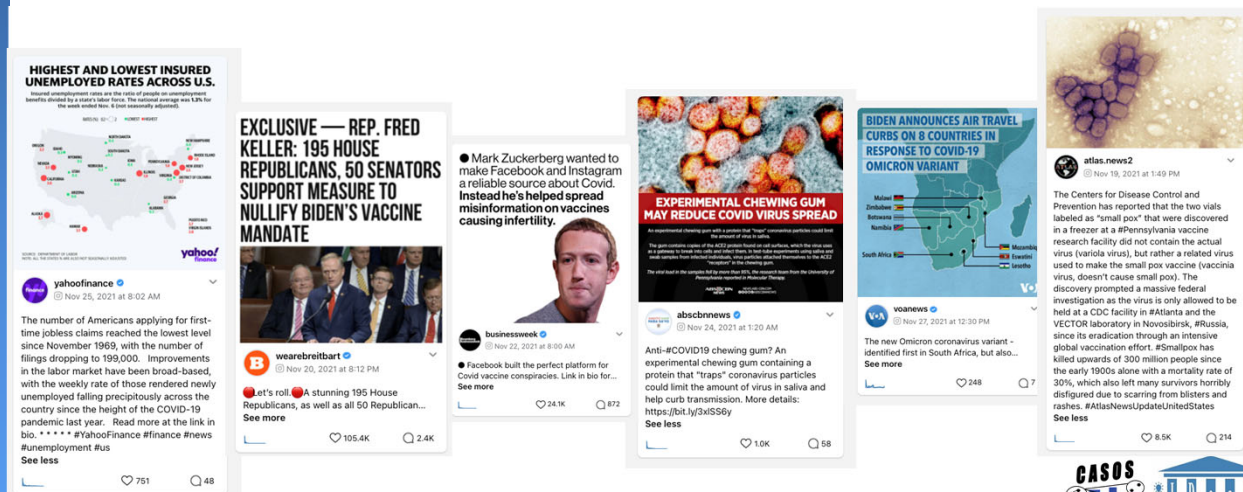


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Trending Posts on Instagram November 19 – November 25

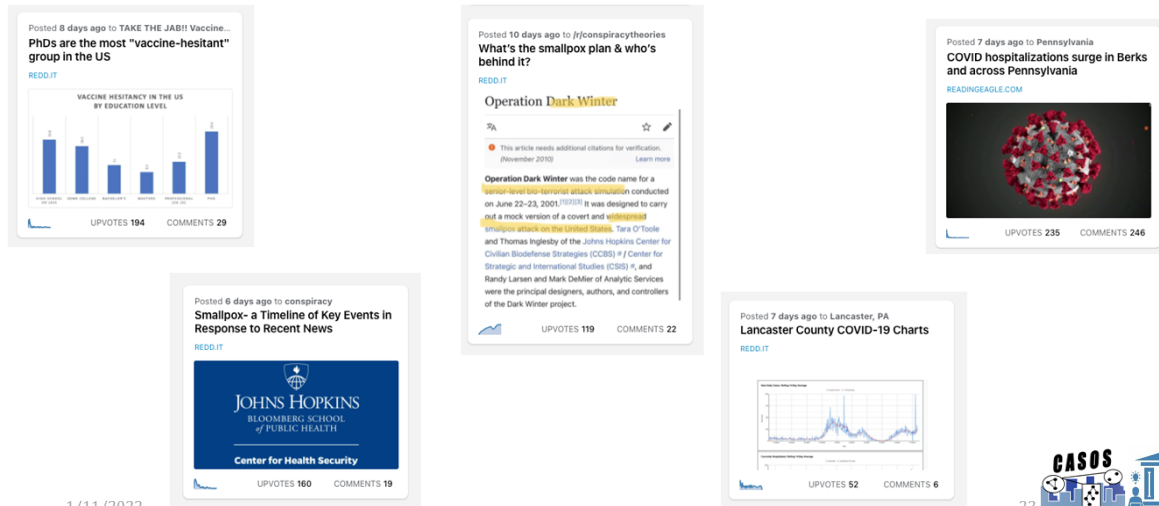


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Trending Posts on Reddit November 19 – November 25



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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

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