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

Dr. Iuliia Alieva, Dawn Robertson, Dr. Kathleen M. Carley Vaccine Hesitancy Project Update based on January 21, 2022 – January 27, 2022

The CMU centers for:

Informed DEmocracy And Social cyber-security

Computational Analysis of Social and Organizational Systems



Carnegie Mellon University



### **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.

1/29/2022



### **Report Overview January 21 – January 27**

- ☐ This week's trending stories cover Mandates, "Natural" immunity, Masks, Boosters, Omicron, new subvariant Stealth Omicron;
- □ Trending stories: <a href="https://mediaite.com/a/jumug">https://mediaite.com/a/jumug</a> Eric Clapton Says Vaccinated People Are Victims of 'Mass Formation Hypnosis; 'https://boston.cbslocal.com/2022/01/24/covid-19-vaccine-heart-transplant-boston-brigham-womens/ Man Can't Get Heart Transplant Because He's Not Vaccinated Against COVID; <a href="https://www.itv.com/news/2022-01-24/boris-johnson-had-birthday-bash-during-lockdown-itv-news-understands">https://www.itv.com/news/2022-01-24/boris-johnson-had-birthday-bash-during-lockdown-itv-news-understands</a> Boris Johnson had birthday bash during lockdown, ITV News understands; <a href="https://trib.al/9wGK8u8">http://hub.jhu.edu/2022/01/11/covid-19-vaccine-boosters-beyrer-qa</a> YES, YOU SHOULD GET A BOOSTER; <a href="https://trib.al/9wGK8u8">https://trib.al/9wGK8u8</a> Boston hospital REMOVES dying father-of-two, 31, from top of heart transplant list because he's not vaccinated: His father says 'my son has gone to the edge of death to stick to his guns;' <a href="https://www.independent.co.uk/sport/olympics/antivax-covid-szilveszter-csollany-hungary-b2000002.html">https://trib.al/9wGK8u8</a> Hittps://www.independent.co.uk/sport/olympics/antivax-covid-szilveszter-csollany-hungary-b2000002.html Anti-vax Olympic gold medalist Szilveszter Csollany dies of Covid, aged 51; <a href="https://nyti.ms/3lz]7WI">https://nyti.ms/3lz]7WI</a> Sarah Palin, who is unvaccinated, recently dined indoors in New York City before testing positive
- Anti-vax, disinformation, and vaccine hesitancy stories: <a href="https://www.theblaze.com/op-ed/horowitz-whistleblowers-share-dod-medical-data-that-blows-vaccine-safety-debate-wide-open">https://debate-wide-open</a> Horowitz: Whistleblowers share DOD medical data that blows vaccine safety debate wide open; <a href="https://thannity.com/media-room/naturally-cdc-reports-natural-immunity-outperformed-vaccine-only-protection-against-delta/">https://thannity.com/media-room/naturally-cdc-reports-natural-immunity-outperformed-vaccine-only-protection-against-delta/</a>; <a href="https://thenewamerican.com/study-most-of-vaccinated-die-because-of-vax-induced-autoimmune-attacks-on-their-own-organs/">https://thenewamerican.com/study-most-of-vaccine-only-protection-against-delta/</a>; <a href="https://thenewamerican.com/study-most-of-vaccinated-die-because-of-vax-induced-autoimmune-attacks-on-their-own-organs/">https://thenewamerican.com/study-most-of-vaccine-only-protection-against-delta-in-because-of-vax-induced-autoimmune-attacks-on-their-own-organs/</a> Study: <a href="https://thenewamerican.com/study-most-of-vaccinated-die-because-of-vax-induced-autoimmune-attacks-on-their-own-organs/">https://thenewamerican.com/study-most-of-vaccine-only-protection-against-delta-in-own-organs/</a> Study: <a href="https://thenewamerican.com/study-most-of-vaccinated-die-because-of-vax-induced-autoimmune-attacks-on-their-own-organs/">https://thenewamerican.com/study-most-of-vaccine-only-protection-against-delta-induced-autoimmune-attacks-on-their-own-organs/</a> Study: <a href="https://thenewamerican.com/study-most-of-vaccine-only-protection-against-delta-induced-autoimmune-attacks-on-their-own-organs/">https://thenewamerican.com/study-most-of-vaccine-only-protection-against-delta-induced-autoimmune-attacks-on-their-own-organs/</a> Study: <a href="https://study-most-of-vaccine-only-protection-against-delta-induced-autoimmune-attacks-on-their-own-organs/">https://study-most-of-vaccine-only-protection-against-delta-induced-autoimmune-atta

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# Trends (tweets per week) January 21 – January 27 15000 14000 12000 12000 1000

# **High Level View by City January 21 - January 27**

|                   | Total PA | Philad | elphia | Pittsb | urgh  | Eri    | e    | Allentown/ | Bethlehem | 0      | ther  |
|-------------------|----------|--------|--------|--------|-------|--------|------|------------|-----------|--------|-------|
| Conversation      | Tweets   | Tweets | %      | Tweets | %     | Tweets | %    | Tweets     | %         | Tweets | %     |
| Overall Vaccine   | 61832    | 33704  | 143.0% | 16043  | 68.1% | 712    | 3.0% | 8670       | 36.8%     | 2703   | 11.5% |
|                   |          |        |        |        |       |        |      |            |           |        |       |
| Vaccine Passports | 1738     | 985    | 2.9%   | 445    | 2.8%  | 19     | 2.7% | 249        | 2.9%      | 40     | 1.5%  |
| FDA Approval      | 157      | 77     | 0.2%   | 40     | 0.2%  |        | 0.0% | 36         | 0.4%      | 4      | 0.1%  |
| Boosters          | 2025     | 1065   | 3.2%   | 521    | 3.2%  | 26     | 3.7% | 320        | 3.7%      | 93     | 3.4%  |
| Employees         | 905      | 453    | 1.3%   | 196    | 1.2%  | 11     | 1.5% | 202        | 2.3%      | 43     | 1.6%  |
| "Experimental"    | 171      | 97     | 0.3%   | 30     | 0.2%  | 4      | 0.6% | 36         | 0.4%      | 4      | 0.1%  |
| Children          | 1391     | 815    | 2.4%   | 286    | 1.8%  | 17     | 2.4% | 229        | 2.6%      | 44     | 1.6%  |
| Myocarditis       | 315      | 167    | 0.5%   | 63     | 0.4%  | 7      | 1.0% | 74         | 0.9%      | 4      | 0.1%  |
| Heart             | 1238     | 633    | 1.9%   | 286    | 1.8%  | 19     | 2.7% | 237        | 2.7%      | 63     | 2.3%  |
| Masks             | 4572     | 2181   | 6.5%   | 1354   | 8.4%  | 70     | 9.8% | 648        | 7.5%      | 319    | 11.8% |
| Thrombosis/VITT   | 32       | 17     | 0.1%   | 14     | 0.1%  |        | 0.0% |            | 0.0%      | 1      | 0.0%  |
| Mandates          | 5498     | 2890   | 8.6%   | 1204   | 7.5%  | 67     | 9.4% | 1094       | 12.6%     | 243    | 9.0%  |
| Natural Immunity  | 2080     | 1223   | 3.6%   | 528    | 3.3%  | 16     | 2.2% | 276        | 3.2%      | 37     | 1.4%  |
| Efficacy          | 146      | 77     | 0.2%   | 40     | 0.2%  |        | 0.0% | 23         | 0.3%      | 6      | 0.2%  |
| Omicron           | 1664     | 807    | 2.4%   | 436    | 2.7%  | 14     | 2.0% | 307        | 3.5%      | 100    | 3.7%  |
| Delta Variant     | 516      | 225    | 0.7%   | 156    | 1.0%  | 9      | 1.3% | 87         | 1.0%      | 39     | 1.4%  |
| Race              | 1226     | 596    | 1.8%   | 419    | 2.6%  | 13     | 1.8% | 152        | 1.8%      | 46     | 1.7%  |
| Ivermectin        | 131      | 60     | 0.2%   | 33     | 0.2%  | 1      | 0.1% | 34         | 0.4%      | 3      | 0.1%  |
| Military          | 133      | 80     | 0.2%   | 23     | 0.1%  | 3      | 0.4% | 14         | 0.2%      | 13     | 0.5%  |
| Breakthrough      | 88       | 49     | 0.1%   | 23     | 0.1%  | 1      | 0.1% | 14         | 0.2%      | 1      | 0.0%  |

- Trending conversations this week:
  - "Natural" immunity
  - Heart-related side effects
  - FDA Approval



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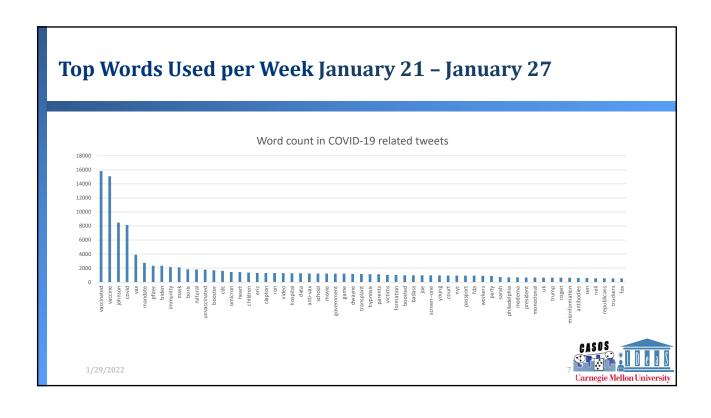
# High Level View by County January 21 - January 27

| County            | Allegheny | Beaver | Butler | Cambria | Fayette | Indiana | Somerset | Westmoreland |
|-------------------|-----------|--------|--------|---------|---------|---------|----------|--------------|
| Overall Vaccine   | 16506     | 43     | 57     | 9       | 54      | 27      | 11       | 84           |
|                   |           |        |        |         |         |         |          |              |
| Vaccine Passports | 449       |        | 3      |         |         |         |          | 4            |
| FDA               | 40        |        |        |         |         |         |          |              |
| Boosters          | 533       | 1      |        |         | 3       |         |          | 1            |
| Employees         | 204       |        |        |         | 3       |         |          | 1            |
| "Experimental"    | 30        |        |        |         |         |         |          |              |
| Children          | 300       |        | 1      |         |         |         |          |              |
| Myocarditis       | 63        |        |        |         |         |         |          |              |
| Heart             | 305       | 3      | 1      | 3       | 1       |         |          |              |
| Masks             | 1413      | 6      | 6      | 3       | 4       | 6       |          | 19           |
| Thrombosis/VITT   | 14        |        |        |         |         |         |          |              |
| Mandates          | 1227      | 4      | 3      |         | 9       |         | 3        | 9            |
| Natural Immunity  | 533       |        | 4      |         | 1       |         |          | 1            |
| Efficacy          | 40        |        |        |         |         |         |          |              |
| Omicron           | 456       | 1      | 1      |         | 1       | 1       |          | 1            |
| Delta Variant     | 159       |        | 1      |         |         |         |          | 1            |
| Race              | 430       |        |        | 1       |         |         |          | 1            |
| Ivermectin        | 33        |        |        |         |         |         |          |              |
| Military          | 23        |        |        |         |         |         |          |              |
| Breakthrough      | 24        |        |        |         |         |         |          |              |

 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 Hashtags by County January 21 – January 27**

■ 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  | Fayette              | Somerset             | West Moreland         |
|---------------------|------------------|----------------------|----------------------|-----------------------|
| covid19 (248)       | covid19 (1)      | boycottstarbucks (2) | boycott (1)          | pharmtech (1)         |
| vaccine (76)        | fauci (1)        | aaronrodgers (1)     | boycottstarbucks (1) | freedomconvoy2022 (1) |
| steelers (44)       | maskmandates (1) |                      | cbj (1)              | blm (1)               |
| pfizer (39)         | maskmandates (1) |                      | publicsafety (1)     | cvspharmtech (1)      |
| boycottwalmart (34) | pfizer (1)       |                      |                      |                       |

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#### **Top Hashtags by City January 21 - January 27**

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

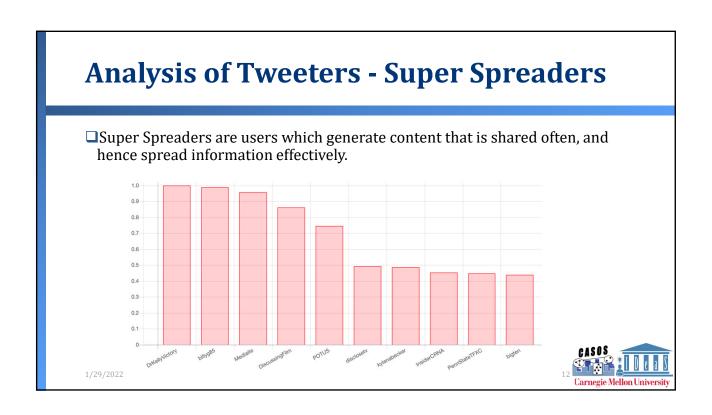
| Philadelphia     | Chester                | Norristown               | Pittsburgh          | Erie                   | Allentown/<br>Bethlehem | Other                |
|------------------|------------------------|--------------------------|---------------------|------------------------|-------------------------|----------------------|
| covid19 (281)    | sarahpalin (50)        | sarahpalin (163)         | covid19 (245)       | getvaccinated (5)      | covid19 (82)            | covid19 (29)         |
| pfizer (86)      | covid19 (34)           | oann (87)                | vaccine (76)        | getboosted (4)         | fundourschoolspa (35)   | vaccine (22)         |
| omicron (71)     | myocarditis (18)       | covid19 (79)             | steelers (43)       | bluevoices (3)         | schoolfundingtrial (35) | eagles (8)           |
| vaxupphilly (61) | freedomconvoy2022 (12) | fundourschoolspa<br>(52) | pfizer (39)         | truthinvaccination (3) | vaccine (33)            | covidvaccine (6)     |
| donotcomply (49) | demvoice1 (10)         | covaxin (43)             | boycottwalmart (34) | boycottstarbucks (2)   | pfizer (25)             | getvaccinatednow (6) |

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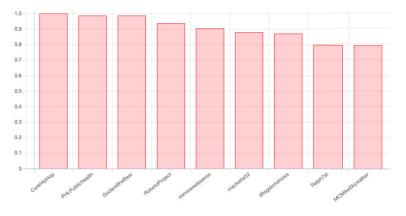
#### **Top URLs by County January 21 - January 27** Butler + Beaver West Moreland https://w.mand-womens-hospitan-wont-get-heart-transplant-man-wont-get-vaccinated/ Hospital refusing heart transplant for man who won't get vaccinated (2) vaccine-heart-transplant-ham-womens/ Man Can't al-removes-man-from-transplant-list-over-vaxx-status/ Hospital Removes Man from Transplant List Over Vaxx Status (1) boston-brigham-womens/ Man Čan't Get Heart Transplant Because He's Not Vaccinated Against COVID (118) Govid-19-a-second-opinion html Highlight Reel: Sen. Ron Johnson's COVID-19: A Second Opinion Roundtable (1) http://vaccines.gov (2) be Accompanied by Staff in Walmart to Make Sure They Don't Buy Anything Other Than Food & Pharma (1) https://thenewamerican.com/study-24/boris-johnson-had-birthday-bash-during-lockdown, ritv-news-understands Boris Johnson had birthday bash during lockdown, ITV News understands (115) who won't get vaccinated (1) https://ueuewaueu.nasawa.nasaw https://trib.al/bX32Xq2 CDC: Natural immunity stronger than vaccines alone during delta wave (1) Die Because of Vax-induced Autoimmune Attacks on Their Own Organs (1) https://www.theepochtimes.com/pfizer-board-member-suggests-end-to-mask-warcines-mandates 4233260.html/rum.source=ref-share&utm.campalgn=tw&rs=SHRCDPV W& Pfizer Board Hember Suggests End to Mask, Vaccine Mandates (1) https://trib.al/p7dvl.4E Starbucks scraps Vaccine Mandate - Here's some-monoclonal antibodies-treatments-brief by the starbucks scraps Vaccine Mandate - Here's some-monoclonal Antibodies-treatments Bursts (1) https://trib.al/p7dvl.4E Starbucks scraps Vaccine Mandate - Here's scraps Vaccine Mandate - Here's some-monoclonal antibodies-treatments Bursts (1) https://trib.al/p7dvl.4E Starbucks scraps Vaccine Mandate - Here's scraps Vaccine Mandate - Here's some-monoclonal antibodies-treatments-brief by the scraps Vaccine Mandate - Here's scraps https://www.nytines.com/live/20 19-vaccine-hoosters-beyrer-qg YES, YOU SHOULD GET A BOOSTER (91) Adult Vaccine Mandate Nears Approval (1) https://tribal/9wGK8u8 Boston hospital REMOVES dying father-of-two, 31, from top of heart transplant list because he's not vaccinated: list father the cause he's not vaccinated: list father because he's not vaccinated: list father discovered has some to the edge of us-news/us-vaccine-mandate-freight-drivers-coming-canada-nay-exacerbate-auto-s-rcna1264 https://dailysceptic.org/2022/01/20/nat ural-immunity-superior-to-vaccineimmunity-oct-to-twide-finds/Natural Immunity Superior to Vaccine Immunity, CDC Study Finds (1) http://hill.cm/400lgo1 Cheryl Hines blasts husband RFK Jr.'s 'reprehensible' anti-vaccine, Holocaust remarks (1) U.S. vaccine mandate on freight drivers coming from Canada may worsen auto supply chain shortage says 'my son has gone to the edge of death to stick to his guns' (76) http://thr.cm/gcBgAyh Spotify to Pull Neil Young's Music After Artist's Objections to Joe Rogan (1) MILES ST. JOE ROGAN (1) MILES ST. JOE ROGAN (1) JOE protection\_agains\_delay\_NatinaLiyCDC Reports Natural Immunity Outperformed Vaccine-Only Protection Against Delta\_(04) rotection Rogan (1) Carnegie Mellon University

| TOP OTES   | by city   | January 2   | i janua   |  |   |   |
|--|---|---|---|--|---|---|
| Philadelphia   | Chester   | Norristown  | Pittsburgh  | Erie   | Allentown/ Bethlehem  | Other   |
| https://mediaite.com/a/jumug Eric<br>lapton Says Vaccinated People Are<br>ctims of 'Mass Formation Hypnosis'<br>(912)  | https://www.youtube.com/wat<br>ch?v=Nmiud-Cw53s Jan 5, 2022<br>ACIP Meeting - Welcome &<br>Coronavirus Disease 2019<br>(COVID-19) Vaccines - CDC (18)   | https://www.rollingstone.com/music/<br>music-news/nell-young-demands-<br>spotify-remove-music-vaccine-<br>disinformation-1290020/ Neil Young<br>Demands Spotify Remove His Music<br>Over 'False Information About<br>Vaccines' (17)           | https://boston.cbslocal.com/2022/<br>01/24/covid-19-vaccine-heart-<br>transplant-boston-brigham-<br>womens/ Man Can't Get Heart<br>Transplant Because He's Not<br>Vaccinated Against COVID (118)  | https://childrenshealthdefense.org/defender/end-vaccine-mandates-government-overreach-dc-rally/30,000+ Demand End to Vaccine Mandates, Government Overreach at DC Rally (5)  | https://trib.al/9wGK8u8 Boston<br>hospital REMOVES dying father-of-<br>two, 31, from top of heart<br>transplant list because he's not<br>vaccinated: His father says 'my son<br>has gone to the edge of death to<br>stick to his guns' (53) | https://www.cbsnews.com<br>s/brigham-and-womer<br>hospital-boston-refusing-t<br>transplant-man-wont-g<br>vaccinated/ Hospital refu<br>heart transplant for man<br>won't get vaccinated (1                 |
| https://www.theblaze.com/op-<br>d/horowitz-whistleblowers-share-<br>dod-medical-data-that-blows-<br>vaccine-safety-debate-wide-open<br>prowitz: Whistleblowers share DOD<br>medical data that blows vaccine<br>safety debate wide open (268) | https://trib.al/SE050su Downing<br>Street parties: 'No evidence'<br>Tory MPs are being intimidated<br>and blackmailed, says Boris<br>Johnson (17)   | http://vaccines.gov (15)  | https://www.itv.com/news/2022-<br>01-24/boris-johnson-had-birthday-<br>bash-during-lockdown-itv-news-<br>understands Boris Johnson had<br>birthday bash during lockdown, ITV<br>News understands (115)  | https://www.newsweek.com/couple-<br>faces-lail-time-alleeedly-using-fake-<br>covid-vaccine-card-get-nfl-game-<br>16732587-utm term=Autofeed&utm<br>medium-Social&utm source=Twitter<br>#Echobx=1643223340 Couple Faces<br>Jail Time for Allegedly Using Fake<br>COVID Vaccine Card to Get Into NFL<br>Game (5) | https://www.cbsnews.com/news/b<br>righam-and-womens-hospital-<br>boston-refusing-heart-transplant-<br>man-wont-get-vaccinated/ Hospital<br>refusing heart transplant for man<br>who won't get vaccinated (31)                               | https://trib.al/9wGK8u8 B<br>hospital REMOVES dying fi<br>of-two, 31, from top of h<br>transplant list because he<br>vaccinated: His father say<br>son has gone to the edge<br>death to stick to his guns |
| tps://www.independent.co.uk/spor/<br>folympics/antivax-covid-szilveszter-<br>csollany-hungary-b2000002.html<br>Anti-vax Olympic gold medalist<br>Szilveszter Csollany dies of Covid,<br>aged 51 (213)  | https://boston.cbslocal.com/20<br>22/01/24/covid-19-vaccine-<br>heart-transplant-boston-<br>brigham-womens/ Man Can't<br>Get Heart Transplant Because<br>He's Not Vaccinated Against<br>COVID (10)                  | https://www.theblaze.com/op-<br>dd/horowitz-whistleblowers-share-<br>dod-medical-data-that-blows-vaccine-<br>safety-debate-wide-open Horowitz:<br>Whistleblowers share DOD medical<br>data that blows vaccine safety debate<br>wide open (15) | http://hub.ihu.edu/2022/01/11/co<br>vid-19-vaccine-boosters-beyrer-ga<br>YES, YOU SHOULD GET A BOOSTER<br>(91)  | https://www.rollingstone.com/music<br>/music-news/neil-young-demands-<br>spotify-remove-music-vaccine-<br>disinformation-1290020/ Neil Young<br>Demands Spotify Remove His Music<br>Over 'False Information About<br>Vaccines' (4)   | https://unherd.com/thepost/israeli<br>-vaccine-chief-we-have-made-<br>mistakes/?1642614962158 Israeli<br>vaccine advisor: "We have made<br>mistakes" (30)   | https://nyti.ms/3IzI7WL<br>Palin, who is unvaccinat<br>recently dined indoors in<br>York City before testing po<br>(6)  |
| tp://hub.ihu.edu/2022/01/11/covid<br>19-vaccine-boosters-beyrer-ga YES,<br>YOU SHOULD GET A BOOSTER (79)   | https://www.theguardian.com/<br>commentisfree/2022/jan/19/th<br>e-guardian-view-on-boris-<br>johnson-and-partygate-all-<br>played-out The Guardian view<br>on Boris Johnson and<br>'partygate': all played out (10) | https://www.cbsnews.com/news/brigh<br>am-and-womens-hospital-boston-<br>refusing-heart-transplant-man-wont-<br>get-vaccinated/ Hospital refusing heart<br>transplant for man who won't get<br>vaccinated (12)                                 | https://trib.al/9wGK8u8 Boston<br>hospital REMOVES dying father-of-<br>two, 31, from top of heart<br>transplant list because he's not<br>vaccinated: His father says 'my son<br>has gone to the edge of death to<br>stick to his guns' (76)       | https://trib.al/9wGK8u8 Boston<br>hospital REMOVES dying father-of-<br>two, 31, from top of heart transplant<br>list because he's not vaccinated: His<br>father says 'my son has gone to the<br>edge of death to stick to his guns' (3)  | http://hub.jhu.edu/2022/01/11/co<br>vid-19-vaccine-boosters-beyrer-ga<br>YES, YOU SHOULD GET A BOOSTER<br>(28)  | http://vaccines.gov (5  |
| https://www.cbsnews.com/news/bri<br>nam-and-womens-hospital-boston-<br>twinisp-heart-transplant-man-wont-<br>get-vaccinated/ Hospital refusing<br>eart transplant for man who won't<br>get vaccinated (79)                                   | 1/20/natural-immunity-<br>superior-to-vaccine-immunity-<br>cdc-study-finds/ Natural   | https://trib.al/9wGK8u8 Boston<br>hospital REMOVES dying father-of-two,<br>31, from top of heart transplant list<br>because he's not vaccinated: His father<br>says 'my son has gone to the edge of<br>death to stick to his guns' (11)       | https://hannity.com/media-<br>room/naturally-cdc-reports-<br>natural-immunity-outperformed-<br>vaccine-only-protection-against-<br>delta/ NATURALLY-CDC Reports<br>Natural Immunity Outperformed<br>Vaccine-Only Protection Against<br>Delta (44) | https://www.independent.co.uk/spor<br>/fohmpic/antivas.covid-szilveszter-<br>scellany-hungar-b200002-html<br>Anti-vax Olympic gold medalist<br>Szilveszter Csollany dies of Covid,<br>aged S1 (3)  | list-hes-not-vaccinated.html Boston<br>hospital REMOVES dying father-of-  | https://trib.al/zU483Hf<br>Clapton claims peopl<br>vaccinated against COVID-<br>under 'hypnosis' (4)  |



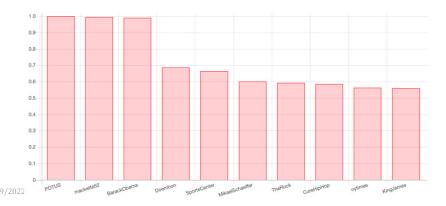
# **Analysis of Tweeters - Super Friends**

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



# **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 |
|------------------------|-------|
| <u>POTUS</u>           | 370   |
| <u>pfizer</u>          | 301   |
| <u>US FDA</u>          | 254   |
| <u>FoxNews</u>         | 234   |
| CDCgov                 | 211   |
| <u>akheriaty</u>       | 205   |
| <u>treasuremembers</u> | 203   |
| RealCandaceO           | 182   |
| <u>ClayTravis</u>      | 158   |
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|                        |       |

1/29/202



#### **Trending Tweets January 21 - January 27**

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

- ☐ Eric Clapton Says Vaccinated People Are Victims of 'Mass Formation Hypnosis' https://t.co/dTuE6w1YS5
- □ Since the CDC admits natural immunity is equivalent to vaccinated immunity (at a minimum), there needs to be immediate civil rights cases filed against NYC, San Fran, and all the rest of these "vaccine passport" cities for discrimination & violation of constitutional rights.
- □ NYPD arrested a 9 year old child in NYC because she didn't have a vax card in a museum. We are destroying lives. This has to stop! https://t.co/SaHfcHfVI7
- ☐ I've just read that Johnson is Ordering schools to stop wearing masks from next Thursday even if the Head, teachers and parents want to continue due to lots of cases. So, if a child catches Covid at school after next Thursday and dies, is the PM guilty of murder?
- ☐ To those who have not been vaccinated yet: now is the time. Protect yourself and your family.
- □ Sen. Ron Johnson asked about reducing child care costs: "Well, people decide to have families and become parents. That's something they need to consider when they make that choice. I've never really felt it was society's responsibility to take care of other people's children." https://t.co/HyJr4iTwUG
- #SarahPalin, who's said she'd be vaccinated for Covid-19 over her dead body, has been diagnosed with Covid-19 for the second time. Covid-19 is a very famous, very busy virus, but it's sweet that it still took the time to try to help Sarah achieve her goals.
- Hospital REMOVES dying father-of-two, 31, from top of heart transplant list because he's not vaccinated https://t.co/xMChASc41y https://t.co/82b2ub5nHW
- □ There's evidence that a booster dose reduces a person's likelihood of being infected with SARS-CoV-2. That's super like Mario, but less likely doesn't mean impossible. In general, boosters reduce symptom severity and duration, and reduce transmission: https://t.co/rF2sQBDdNMhttps://t.co/x1ybm0bCXy
- The FDA's reason for revoking usage of the monoclonal antibodies is that it "doesn't work well on Omicron". But we were all BST to be that the Omicron variant is resistant to the vaccines. So why didn't they revoke usage of ALL Pfizer and Moderna vaccines? THIS IS PRESENTED University

