Social Media Monitoring in Public Health Emergencies Public Health Communications Webinar Series

July 24, 2019



Webinar Objectives

- Explore how to use social media to monitor and respond to the spread of (mis)information during public health emergencies
- Describe the importance of being aware of public sentiment during a public health emergency
- Identify how to use social media bidirectionally to both provide updates and collect public feedback
- Share scalable approaches for managing social media monitoring regardless of organizational budget



Agenda

Social Media for Public Health Emergency Preparedness & Response

- Tamer Hadi, Director of Strategic Technology, Office of Emergency
 Preparedness and Response, NYC Department of Health and Mental Hygiene
- · Q&A



Social Media for Public Health Emergency Preparedness & Response

Tamer HadiDirector of Strategic TechnologyOffice of Emergency Preparedness and ResponseNYC Department of Health and Mental Hygiene

🍠 @tamer_hadi



OVERVIEW

PREPAREDNESS PHASE

- Establishing social media presence
- Social media promotion strategies

RESPONSE & RECOVERY PHASE

- Brief background
- Best Practices
- Free tools, trainings, resources
- Public health emergency case studies from NYC
 - Measles, Ebola, Legionnaires' Disease, Zika
- Current / Future Social Media Trends
- Discussion / Q&A



2017 NACCHO LHD Survey

Results

LHDs most commonly selected marketing, social media, website management, and brand management as top priorities for improvement.





DIGITAL AROUND THE WORLD IN 2019

JAN

2019

THE ESSENTIAL HEADLINE DATA YOU NEED TO UNDERSTAND GLOBAL MOBILE. INTERNET, AND SOCIAL MEDIA USE



Infographic Credit: Hootsuite

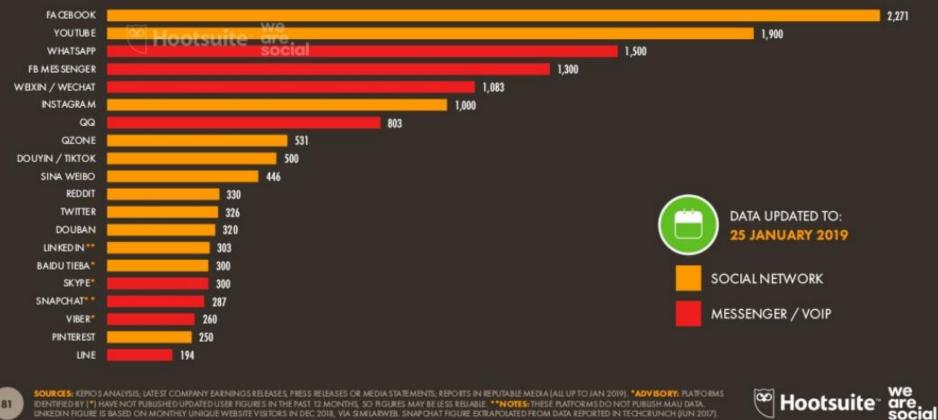


socia

JAN 2019

SOCIAL PLATFORMS: ACTIVE USER ACCOUNTS

BASED ON MONTHLY ACTIVE USERS, USER ACCOUNTS, OR UNIQUE VISITORS TO EACH PLATFORM, IN MILLIONS



IDENTIFIED BY (*) HAVE NOT PUBLISHED UPDATED USER FIGURES IN THE PAST 12 MONTHS, SO REGIRES MAY BE LESS RELIABLE ** NOTES: THESE PLATFORMS DO NOT PUBLISH MAU DATA. UNKEDIN FIGURE IS BASED ON MONTHLY UNIQUE WEBSITE VISITORS IN DEC 2018, VIA SIMILARWEB, SNAPOHAT FIGURE EXTRAPOLATED FROM DATA REPORTED IN TECHCRUNCH JUN 2017]

Infographic Credit: Hootsuite



Public Health Emergency Preparedness and Response Capabilities





National Standards for State, Local, Tribal, and Territorial Public Health "social media"
mentioned 24
times in 2018
update

 Only 5 times in 2011 version – all focused on outbound use





Centers for Disease Control and Preventi Center for Preparedne and Response



FEMA National Incident Management System (NIMS)

Updated on October 17, 2017

Social Media

Social media presents unique considerations for incident management at all levels and provides a set of tools that can facilitate:

- Monitoring and gathering information and firsthand accounts of incident impacts;
- Distributing public information and warning;
- Producing maps and incident visualizations; and
- Matching available information, services, and resources to identified needs.

Using Social Media for Situational Awareness

Social media provides innovative ways of gathering data to achieve situational awareness. Monitoring of spikes or trends in social media by fusion centers, law enforcement, public health, or other information monitoring systems may enhance situational awareness or provide early indication of emerging issues. As with all data, incident personnel use data validation processes to filter and determine the accuracy of information gained via social media.

National Incident Management System

Using Social Media for Disseminating Information

Increasingly, the public expects incident management personnel to use social media to communicate necessary information. When using social media to disseminate information, considerations for incident managers include:

- · Identifying the intended audiences and what types of information to share;
- Determining if they wish to solicit feedback or responses; and
- · The potential time delay before survivors receive the message.

These decisions help incident managers determine which social media platforms they should use, the frequency and configuration of messages, and assignments and staffing needs. As with other public information, personnel should follow standard release protocols and ensure accessibility. Monitoring news and social media outlets helps identify rumors, inaccuracies, or information gaps. Important inaccuracies should be addressed before the media incorrectly reports them a second time.

Media monitoring assesses the accuracy and content of news and social media reports and helps identify breaking issues and trends;

Advisory System (NTAS) facilitate communication with the public. Social media outlets are an important method of reaching the public directly; such outlets provide flexibility for targeting specific audiences or communicating when traditional media is unavailable, as in a power

The PIO performs a key public information-monitoring role by implementing measures for rumor control and monitoring/updating incident-related social media posts.



Establishing Online Presence

During "Blue Skies" / "Peace Time"



"The Case for the Social Media Coordinator"

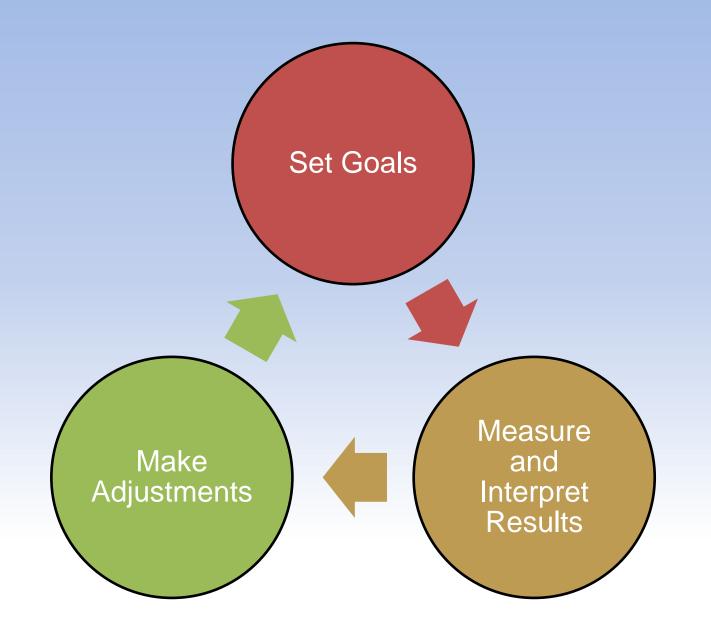
Kristy Dalton (<u>@kristydalton22</u>) http://www.govtech.com/social/The-Case-for-the-Social-Media-Coordinator.html

"If you think managing social media just involves writing a few quick Tweets and Facebook posts every day - think again."

"Besides 'simply' writing content, the social media coordinator needs to manage citizen comments and complaints, analyze data, evaluate ads, train employees on the right way to use social media, create reports, work with video and graphics, and more."



Social Media Goals





What are other Health Depts doing?



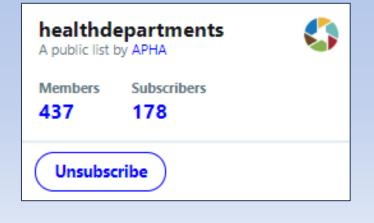
@PublicHealth

Official account of the American Public Health Association: For science, For action. For health.

Washington DC

8 apha.org

III Joined June 2007







<u>6 *FREE* Social Media Marketing & Promotion Strategies</u>

- 1. Leverage existing agency social media accounts
- 2. Create/manage a profile for your top executive
- 3. Use live events to drive traffic to social media posts
- 4. Participate in national campaigns
 - e.g. September Preparedness Month, Hurricane Week, etc.
- 5. Target specific accounts and audiences using hashtags and mentions **
- 6. Participate in Twitter chats



Encourage Top Execs to Engage



Marisa Raphael @marisa_raphael

Following

It has been an honor to lead emergency preparedness @nycHealthy for the past 16 years. I know the team will be in good hands with @BethMaldin as Acting Deputy Commissioner. I look forward to new challenges as VP for #PublicHealth and Strategic Operations @PPFA!



3:26 PM - 11 Jan 2019





Beth Maldin Morgenthau @BethMaldin

Thanks @Marisa_Raphael for 16 years of incredible leadership and best of luck in your new role @PPFA! The #PublicHealth #EmergencyPreparedness team at @nycHealthy will continue to build on your impactful efforts to protect the health of NYers, **#FMGTwitter**



Marisa Raphael @marisa_raphael

It has been an honor to lead emergency preparedness @nycHealthy for the past 16 years. I know the team will be in good hands with @BethMaldin as Acting Deputy Commissioner. I look forward to new challenges as VP for #PublicHealth and Strategic Operatio...

3:45 PM - 11 Jan 2019





Following

Examples of Leveraging Events NACCHO Preparedness Summit (#Prep18)



2 Retweets 3 Likes

Q (2

nycHealthy 🤣 @nycHealthy



How we prepare for biological threats in collaboration with state and federal partners: on.nyc.gov/2ocbctA #Prep18





Marisa Raphael @marisa_raphael · 17 Apr 2018 Public health departments also respond to natural disasters. Learn from @rss_esq how @nycHealthy and other jurisdictions communicate our role as first responders in emergencies to decisionmakers and the public. **#Prep18**





Examples of Leveraging Events (2)

#Prep19



nycHealthy 🥺 @nycHealthy

Following

It is our priority to protect the health and safety of New Yorkers before, during, and after emergencies. This is how we prepare: on.nyc.gov/2v48DjB #Prep19



👜 📾 🎕 🛍 🐼 🙇 🖦 🚳

2 Retweets 13 Likes



Beth Maldin Morgenthau @BethMaldin · Mar 26

During a #disaster, how do you make sure vulnerable evacuees receive care & are reunited with their loved ones? Read more about how @nycHealthy rapidly deployed a system to do that for long-term care residents evacuated during #hurricane Sandy. #Prep19

on.nyc.gov/2UKVoz2





Tagging/Engaging Partner Agencies



Beth Maldin Morgenthau @BethMaldin

Following

Thanks to @NYCHealthSystem, @GNYHA & all partners who participated in #SurgeExNYC today! This huge exercise involved 55 hospitals & 10 nursing homes & tested key capabilities, such as planning how to evacuate & transfer ~6,000 patients to facilities outside of evacuation zones.



4:15 PM - 6 Mar 2019

6 Retweets 14 Likes

۵ 🚯 😳 🖑 🧶 🕲 🕼 🖕



Beth Maldin Morgenthau @BethMaldin · Feb 8 Thanks @PHEgov for organizing the recent workshop w/ NY stakeholders on planning for recovery from a bioincident like #Anthrax. Further strides in local planning to be continued by @nycHealthy, @EPA, & other partners that better equips NYC to recover from a #bioterrorist attack.





ASPR and CDC Emergency

Participate in Twitter Chats

#PrepYourHealth



Lessons learned from #HurricaneSandy have lead to significant improvements in health care system preparedness, such as strengthened coordination and communication between facilities, patient tracking and safety and emergency management programs. #PrepYourHealth



CDC Emergency © @CDCemergency Q2: How have experiences with hurricanes changed how you and/or your organization prepare and plan for hurricane season? #PrepYourHealth

Following

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2:12 PM - 9 May 2019

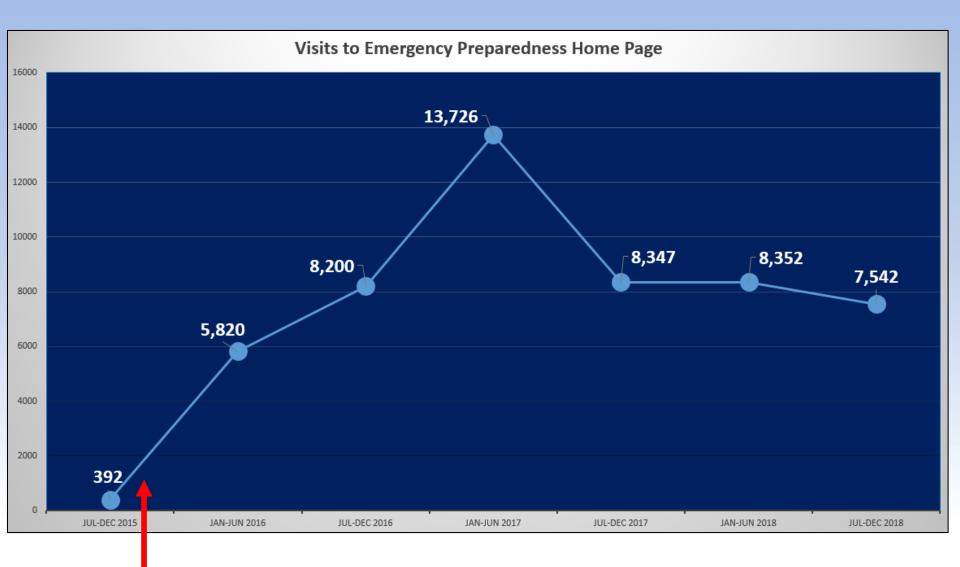
5 Retweets 10 Likes





Evaluating Success

Website Metrics



Social Media Promotion Begins



"Don't short-change the time used to discuss building your audience in peace-time. Being in a flooding emergency right now, I can tell you it was nice to have a base following already and to be known in the community to have active and timely information. We have become a big component of update distribution via social media for the response due to the peacetime focus."

- NACCHO Communications Committee Member



Encourage your agency to get VERIFIED



Follow

...WHEN THEY REACTIVATE THE PROGRAM





4 / We're working on a new authentication and verification program. In the meantime, we are not accepting any public submissions for verification and have introduced new guidelines for the program.

support.twitter.com/articles/20174...

5:31 PM - 15 Nov 2017

- Follower count doesn't matter
- Don't be discouraged by slow growth on Twitter



\$\$\$ Social Media Marketing & Promotion

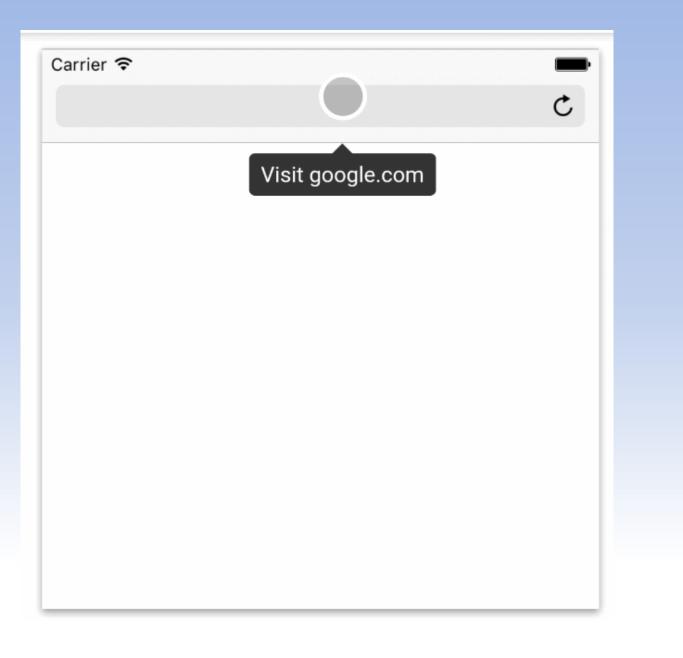
– FB ads

- Sponsored posts on Instagram
- Snap Ads
- Promoted Tweets
- Mobile Ad Networks
- Influencer Marketing
 - Micro-influencers > Celebrity Influencer

This can get very expensive, very fast



It's all about the content...and how it's presented





Tell Your Story



Website: www.PreparednessImpact.com



ABOUT THE PROJECT

Learn about the project's history, vision, mission, and target audiences.

 \rightarrow

COMMUNICATION TOOLKIT

Download and use available materials to educate, communicate, and motivate! →

IMPACT

Take an inside peek at the state and local impact of preparedness efforts.

OUTREACH TRACKING

Log your educational outreach to improve future efforts. →

GET INVOLVED

There are numerous ways you can support the Preparedness Impact Project. Click to learn more!

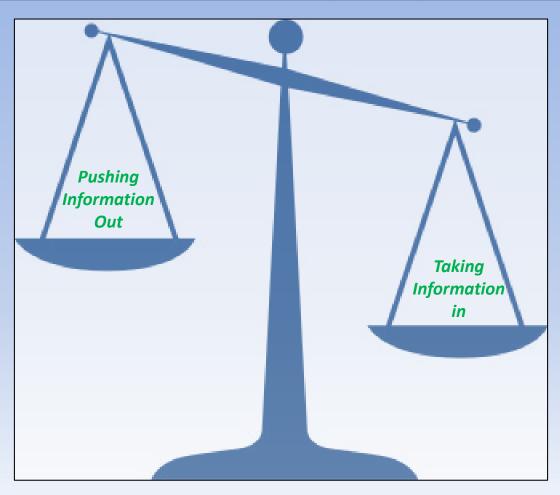


Social Media During a Public

Health Emergency



Effective Use of Social Media During Emergency is Bidirectional



While outbound risk communication is critical...Listening is just as important!



Pushing Out Incident Information

- **1. Provide Public Situational Awareness**
 - What you know and <u>do not</u> know
 - Control the story as quickly as possible
- Build Public Credibility/Trust
 Establish audience before emergency

3. Direct Engagement with the Community

- Two-way communication answering questions or addressing comments
- Ignore trolls, bots



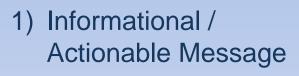
Best Practices for Tweets

General Format



nycHealthy @ @nycHealthy · 16 Jun 2017 We are currently investigating a community cluster of #Legionnaires' disease in a section of Lenox Hill. Info: on.nyc.gov/2syK5yx





- 2) Link to more info
- 3) Hashtag
- 4) Picture / Video / GIF



Best Practices for Tweets: Threads

Following



Commissioner Oxiris Barbot 🥹 @NYCHealthCommr

We are in the midst of a **#measles** outbreak. People in violation of our order to get vaccinated against measles will get a violation and could be fined \$1,000 per instance.







Commissioner Oxiris Barbot O @NYCHealthCommr · Apr 9 Young children and people who have weakened immune systems cannot get vaccinated, so it's crucial that everyone around them be vaccinated in order to shield them from the infection.



for decades and we have evidence.



Commissioner Oxiris Barbot @NYCHealthCommr · Apr 9 I know that parents may be afraid of getting their child vaccinated, but as a pediatrician, I know that getting vaccinated is far safer than getting measles. The vaccine has been proven safe and effective in preventing the spread of measles



t] 30 🖤 52 🗹



Commissioner Oxiris Barbot 🕗 @NYCHealthCommr · Apr 9

We urge everyone who can get vaccinated to get vaccinated. As Passover is coming up, it's important that all New Yorkers get vaccinated, especially if they plan to travel overseas to Europe or Israel, or to areas in the U.S. that are experiencing large outbreaks.

Q 18 1⊒ 14 ♡ 29 🖸

Best Practices for Tweets:

Live Stream Press Conferences





During the incident...

1) Tell your audience to enable mobile notifications



2) Consider pinninglatest and mostimportant tweet /thread to your profile



3) Put the incident hashtag in your Profile Name and/or Bio to improve your agency's searchability



Tweet via SMS

Text 40404

How to post a Tweet via SMS

- 1. First, make sure you've linked your phone to your Twitter account.
- Locate your Twitter short code. If you don't see your country on the list, we may not support your location or mobile carrier yet. We're working to support more every day.
- 3. Once your phone is added, simply send a text message containing your Tweet to your short code.
- 4. That's all you need to do! It will post as a Tweet to your Twitter profile.
- To check that your message posted to your Twitter profile, log in on the web and click on your profile. You should see your Tweet posted there.
- 6. Use these designated Twitter SMS commands to perform even more actions from your Twitter account.



Facebook: Local Alerts

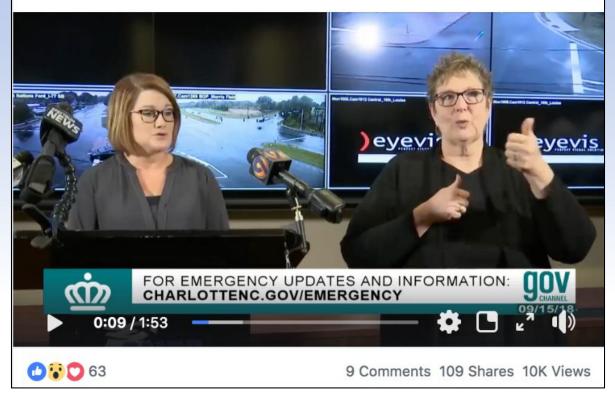


City of Charlotte Government posted a 1 local alert. September 15 at 10:09 PM · 🚱

...

Road conditions are beginning to turn treacherous. We highly urge you to stay off the roads unless it's absolutely necessary. Road conditions will worsen as the storm intensifies overnight. Text CHARMECK to 888777 or go to charlottenc.gov for emergency updates. Charlotte Department of Transportation

NOTE: The video is a clip from the 10:30 a.m. press briefing held on Sept. 15, 2018. Follow our page for the latest updates on city services and public safety information.





Nextdoor

Nextdoor Blog

Welcoming New York City Emergency Management to the Neighborhood

November 1, 2017



Written by Annie Barco

Today, we are excited to announce that New York City Emergency Management has partnered with Nextdoor to better connect and engage with New York City residents on a hyperlocal level. NYC EMERGENCY MANAGEMENT Partners with Nextdoor, the Private Social Network for Neighborhoods

Partnership Allows Agency to Send Hyper-Local Updates to Residents on the Private Social Network





Nextdoor



NYC Department of Health and Mental Hygiene

Welcome to the New York City Department of Health and Mental Hygiene's home on Nextdoor! With an annual budget of \$1.6 billion and more than 6,000 employees throughout the five boroughs, we're one of the largest public health agencies in the world. We're also one of the nation's oldest public health agencies, with more than 200 years of leadership in the field. Every day, we protect and promote the health of 8 million diverse New Yorkers. Our work is broad-ranging. You see us in the inspection grades of dining establishments, the licenses dogs wear, the low- to no-cost health clinics in your neighborhood, and the birth certificates for our littlest New Yorkers. We're also behind the scenes with our disease detectives, investigating suspicious clusters of illness. Our epidemiologists study the patterns, causes and effects of health and disease conditions in New York City neighborhoods. These studies shape policy decisions and the City's health agenda. The challenges we face are many. They range from obesity, diabetes and heart disease to HIV/AIDS, tobacco addiction, substance abuse and the threat of bioterrorism. We're also working to address enduring gaps in health between white New Yorkers and communities of color. Structural racism is at the root of these health inequities, which is why the Department has made racial justice a priority. The New York City Health Department is tackling these issues with innovative policies and programs, and getting exceptional results.

Edit page description

C Share

Post a message, event, poll or urgent alert

News & Events, NYC Department of Health and Mental Hygiene AGENCY

Health Department to Conduct 1st Aerial Larviciding of Mosquito Season

To reduce mosquito activity and the risk of West Nile virus, the Health Department will conduct its first aerial larviciding treatment of the season to marshes and wetland areas of the Bronx, Brooklyn, Queens and Staten Island from Thursday, June 20 to Friday, June 21 and Monday, June 24 from 6 a.m. to 7 p.m., weather permitting.

The helicopter will treat only nonresidential areas. While three days are allotted for the aerial larviciding, the application may be completed in less time. In case of bad weather, application will be delayed until from Monday, June 24 to Wednesday, June 26, 2019 during the same hours.

The Health Department monitors mosquitoes that carry the West Nile virus. To date, no human cases of West Nile virus have been reported this season. During warm weather, mosquitoes can breed in any still water that has been standing for more than five days. In the targeted areas, existing hot and wet weather conditions can cause a rise in mosquito populations. Due to size and limited accessibility, these areas will be treated using a low-flying helicopter.

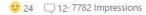
For the aerial application in marshes and wetland areas of the Bronx, Brooklyn, Queens and Staten Island, the Health Department will use environmentally friendly larvicides to kill young mosquitoes before they grow into adults. VectoBac [©] GS contains naturally occurring bacteria and will be used for this application. This product has been approved by the U.S. Environmental Protection Agency and the New York State Department of Environmental Conservation and will be used on mosquito breeding grounds throughout the mosquito season.

More info on this week's mosquito treatments: on.nyc.gov/mosquitoinfo



18 Jun - Subscribers of NYC Department of Health and Mental Hygiene in 30 areas

C Repl









- Create image of important info that can easily be shared on messaging apps
- Community partners can help initiate circulation



- FACT: Measles can be easily prevented with a safe vaccine.
- FACT: Measles causes a fever and rash, but can also cause other health problems like pneumonia, seizures and infections of the brain, or death.
- **FACT:** Measles can be serious for people of all ages. But infants and young children, expectant mothers, people with weakened immune system, and other people who are not immune to measles are most at risk.
- FACT: If you choose not to vaccinate your child, you put other people's lives at risk.

A.3Q

What is measles?

Measles is a virus that causes fever and rash; it can be deadly.

Who can get measles?

Anyone can get measles at any age.

How do you prevent measles?

- With a vaccine it's very safe and effective.
- Children typically get the vaccine after their first birthday. Two doses of the vaccine are needed before children enter school.
- During this outbreak, infants living in Williamsburg should also get an extra, early dose of the vaccine at 6 months for additional protection.
- Children in ZIP codes 11205, 11206, 11211 and 11249, cannot attend school without this vaccine.
- Call 311 to find the vaccine near you today.

How is it spread?

- When someone with measles sneezes or coughs, people can breathe in the virus for up to two hours afterward and may get measles.
- Measles is very contagious if one person has it, 90% of the people around them will also get measles if they aren't vaccinated or immune.

What are the symptoms?

Symptoms include high fever, cough, runny nose, and red or watery eyes. A rash of red spots appears three to five days later. Measles can be spread up to four days before and after a rash appears.

How do you treat measles?

Measles cannot be treated with a specific medicine. Some symptoms — like fever — can be treated with medication.

Does the vaccine cause autism?

No. Scientific studies have proven there is no link between vaccines and autism.



Social Media "Listening"

Why Should Public Health Be Doing This Again?

- Real-time situational awareness
- Get a feel for public sentiment and reaction to the incident
- Instant feedback on public messaging
 - \rightarrow How well or poorly is the message resonating?
 - → Frequent questions?
 - \rightarrow Informs future message development
- Identify and dispel rumors and misinformation
 - ightarrow Public and news media
 - \rightarrow Ignore bots / trolls as much as possible
- Monitor agency reputation
 - \rightarrow Opinions on agency response operations/services
 - \rightarrow Threats to agency or staff



Public Health Issues to Listen for on Social Media

We are not 1st responders...

We can't respond to immediate life safety issues...

But every emergency has public health implications.

Flooding from Hurricane Harvey Causes a Host of Public Health Concerns

A lack of clean drinking water, the spread of disease and mosquito breeding grounds are just some of the potential problems

By Neil S. Grigg, The Conversation US on September 2, 2017

Medium to Long-Term Impacts

- Disruption of healthcare system access, including prescriptions/medicine
- Mental health issues including stress, depression and suicide
- Food safety and water access & contamination from waste/debris
- Increased risk of infectious diseases due to lack of safe water, hygiene, and sanitation (including in sheltering systems)



Building a Social Media Monitoring Team

Planning Considerations Resources Internal vs External



Purpose of Monitoring Social Media

Provide <u>relevant</u>, <u>verifiable</u> and <u>actionable</u> information to ICS Leadership

Social Media Monitoring Team (SMMT)

Trained agency staff mobilized during ICS activations to monitor social media in support of incident objectives.



Operationalizing SM Listening

Input User-Defined Search Parameters

(Topics, hashtags, people, events)

Analysis / Visualization Tools

(Filter, analyze for relevant info using software)

Human Analysis (Validate and determine if info requires leadership attention)

Reporting

(Provide ICS Leadership reports in easily consumable format)



Planning Considerations

Building Social Media Monitoring Capacity

- Leadership Support
- Staff and Agency Resources

 Social media accounts? Staff time?
- Team Structure and Protocols

 ICS position? Communication? Reporting?
- Team Logistics

- Software, hardware, physical space?



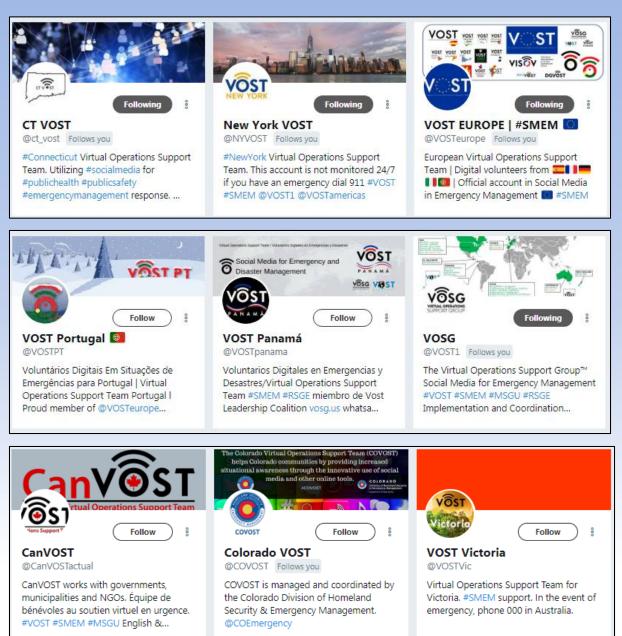
Leveraging External Support

Virtual Operations Support Team (VOST)

- Team of volunteers activated to perform specific functions using social media and online technologies to support an organization and/or jurisdiction
- VOST Team Leader reports directly to agency
- Ex: DOHMH trained group of NYC Medical Reserve Corp (MRC) to assist with monitoring and online activities, such as:
 - Be official message disseminators
 - Providing general awareness of sentiment and commentary by public
 - Identifying relevant mobilized organizations
 - Mapping specific incidents or calls for assistance



National / International VOSTS





Social Media Tools & Resources

FREE vs. PAID



Free "Listening" Tools

Twitter Advanced Search TweetDeck / Hootsuite Snapchat (Snap Maps) GeoTweets

Free #SMEM Training/Resources

National Disaster Preparedness Training Center Courses NLM Disaster Library Social Media Training ASPR TRACIE Social Media Collection DHS S&T Work Group Reports Drexel University School of Public Health Social Media Library

Free Live Streaming Risk Communication Tools

Facebook Live Twitter Live YouTube Live



Twitter Advanced Search (BOOLEAN)

y		←	Q #publichealth			000	Search filters	
0	Home	Тор	Latest	People	Photos	Videos	People From anyone	0
#	Explore	People	3				People you follow	
Q	Notifications	SPH @ Ci	CUNYSPH ty University of New Yo	Public Health & Health Policy Follow York Graduate School of Public Health & Health Policy. social justice in NYC & across the globe. Accredited by			Location Anywhere Near you	Ø
	Messages		EPH.			e. Accredited by		Ũ
	Bookmarks	@	arvardPublicHealth HarvardChanSPH owerful ideas for a hea			Follow	Advanced search Trends for you	٩

https://twitter.com/search-advanced



Twitter Advanced Search (Boolean Query)

Words All of these words Example: what's happening · contains both "what's" and "happening" This exact phrase Example: happy hour · contains the exact phrase "happy hour" Any of these words Example: cats dogs · contains either "cats" or "dogs" (or both) None of these words Example: cats dogs · does not contain "cats" and does not contain "dogs"	×	Advanced search Search					
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Example: cats dogs · does not contain "cats" and does not contain "dogs"		None of these words					
	-	Example: cats dogs · does not contain "cats" and does not contain "dogs"					
These hashtags		These hashtags					



Twitter Advanced Search (BOOLEAN)

(ebola OR #ebola OR #ebolavirus OR #stopebola OR #EbolainNYC) AND ("new york" OR "new york city" OR NY OR NYC OR Brooklyn OR Queens OR Bronx OR Manhattan OR "Staten Island" OR SI OR BK OR BX OR astoria)

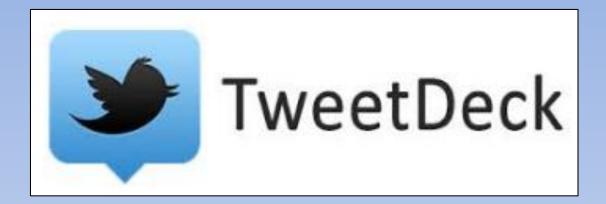
zika OR #zika OR #zikavirus OR #virusdelzika near:"Queens, NY" within:15mi

"legionella" OR "legionella" OR "legionnaire" OR "legionnaires" OR "legionnaire's" OR "Legionaire's" OR "legionaires'" OR "#Legionnaires" OR "#legionnairesdisease" OR "legionario" OR "Legionelosis" OR "legionellosis"

(nycdohmh OR "nyc dohmh" OR "nyc doh" OR dohmh OR nychealth OR ((nyc OR "new york city") AND ("health dept" OR "health department" OR "department of health" OR "dept of health" OR "doh")))

measles OR #measles OR #measlesoutbreak near:"Brooklyn, NY" within:15mi since:2019-04-09





Vs.



*** For Monitoring ***



Tweetdeck

Q



8

Q

HepCure @hepcure 1 6/11 @ 4:30 PM EST, Cassandra Kahl (@HealthNYGov) & Diana Diaz Munoz (@nycHealthy) will present on "#HepatitisC Peer Workers: Keeping it Real." Learn

DOHMH OR @nychealthy

Jarrett Murphy @jarrettmur... 25m DOHMH's research illustrates the

DOHMH's research illustrates the complexity of serving New York's seniors as that population swells: While there are certainly common concerns, different populations within aging New York have vastly different needs.

agejustice itylimits.org/2019/06/06/agi. ⊉CityLimitsNews

C 1 ♥1 ····



Jarrett Murphy @jarrettmur... 25m The vast majority of older New Yorkers have enough food, can hear and see without trouble, and can bathe and dress themselves and walk or climb stairs without a struggle, says new @nycHealthy report #agejustice

citylimits.org/2019/06/06/ag @CityLimitsNews





HIV History Project @HivH... 28m The NYC DOHMH Sexual Health Advisory Group (SHAG) Presents "parTy boi*". Thursday June 13 at 9:30 AM. Free but RSVP required The screening will be followed by a panel and we are going t be on

#emgtwitter OR #SMEM

Q

Connor Dacey @ConnorDacey 21m If you are a #stormchaser or #stormspotter, please take/share my 2-minute survey for my #PhD research that investigates your role during severe weather! Thanks! The link: delaware.ca1.quatrics.com/jfe/for m/SV 12...

#emgtwitter #wxtwitter ○ ↑↓ ♡ •••

Kyle Nelson @WxkyleNelson 1h Countering False Information of Social Media in Disasters and Emergencies: analysis and best practices from @chsscitech's Social Media Working Group: dhs.gov/sites/default/... #NDPTC #smem



[#SMEM]#MSGU] Google Improves SOS Alerts in Search Results (by @sejournal): buff.ly/2WgDOmt



Emergencias PTY @SOS PTY 3h

Un rumor puede ser más peligroso que la misma emergencia, solo da RT a información confirmada de fuentes fidedignas. #CulturaSOS #RSGE #SMEM

Q 11 V …

measles AND (train OR su

TJ MAGA X Ignore #4A a... 33m Replying to @SenSchumer @DHSgov

Oh, yes, about that rise in Typhoid, measles, mumps, super bugs, flesh-eating stuff, ya know...

that disease pool that accompany these hordes of illegal immigrants from their journey!!

It's sheer numbers and probability, you fuq!! ALL ON YOU!!

Lowe, Prof @LoweProf3153 11 It is positive illegals & some legal immigrants are breaking laws before, after, & during time in USA & spreading communicable diseases like measles. National Security is Top Priority so USA can take care of our own homeless, hungry, sick, ill & injured CTIZENS. Yes, to Wall.

Donald J. Trump 📀 @realDon... Just had a big victory in Federal Court over the Democrats in the House on the desperately needed Border Wall. A big step in the right direction. Wall is under construction!

 \Diamond ti \heartsuit ...

Paul Cummings @samsdad02 2h Replying to @MarchorDimes @NYGo... I wonder if the rise of illegal immigrants is the same rate as the measles cases? measles OR #measles OR

Q

25

않

a ship @Dangbattleship 2m As an immunosuppressed person who just had to get revaccinated for measles because (@) I'm no longer immune, thank you!

Senator Brad Hoylman @ @b... Grateful that @NVGovCuomo has backed the bill I carry with @JeffreyDinowitz to end the non-medical exemption loophole for vaccines.

We have the support. Let's get this done.



\Diamond ti \heartsuit ...

NECSS @NECSS 42m On Sunday, July 14, #NECSS hosts "@ScienceBasedMed presents The #Measles Resurgence: How We Got Here and What We Can Do About It," featuring @DrPaulOffit, @stevennovella, @gorskon, and @SBMPediatrics. Important issue for #NYC. events.r20.constantcontact.com/r egister/event... sciencebasedmedicine.org/measl

Our Content of Content

1 nycHealthy Retweeted

Commissioner Oxiris Barbot (1h #UequalsU is a simple way to talk about a scientific fact: People living with HIV on effective treatment do not sexually transmit HIV. NYC is normalizing this message to eliminate the stigma that comes with the HIV divide. My latest op-ed, w/ @DrDemetre:

1 nycHealthy Retweeted

Demetre Daskalakis ©DrDe... 4h #UequalsU and the @nycHealthy #statusneutral vision. "We cannot let the fear of the past dictate a strategy for the future." rewire.news/article/2019/0... thanks for your vision!@NYCHealthCommr @ETEDashboardNY Q 11 1 17 000

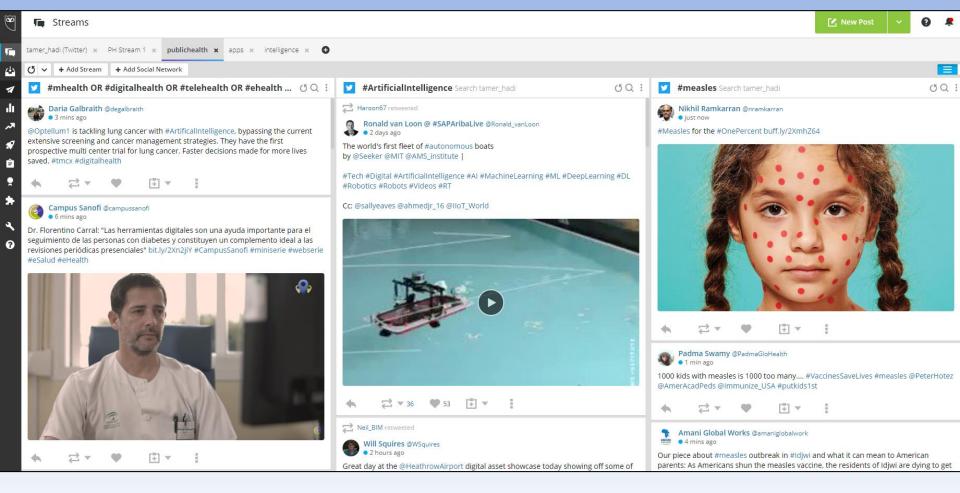
nycHealthy @ @nycHealthy 2h Today we released a report on the health of older adults in NYC. Adults ages 65 and older make up 13% (1.1 million) of NYC's residents. Data from the report will ground and direct ongoing efforts to promote healthy aging: on.nyc.gov/2WsKWkJ



nycHealthy 🥺 @nycHealthy 2h

Health

Hootsuite



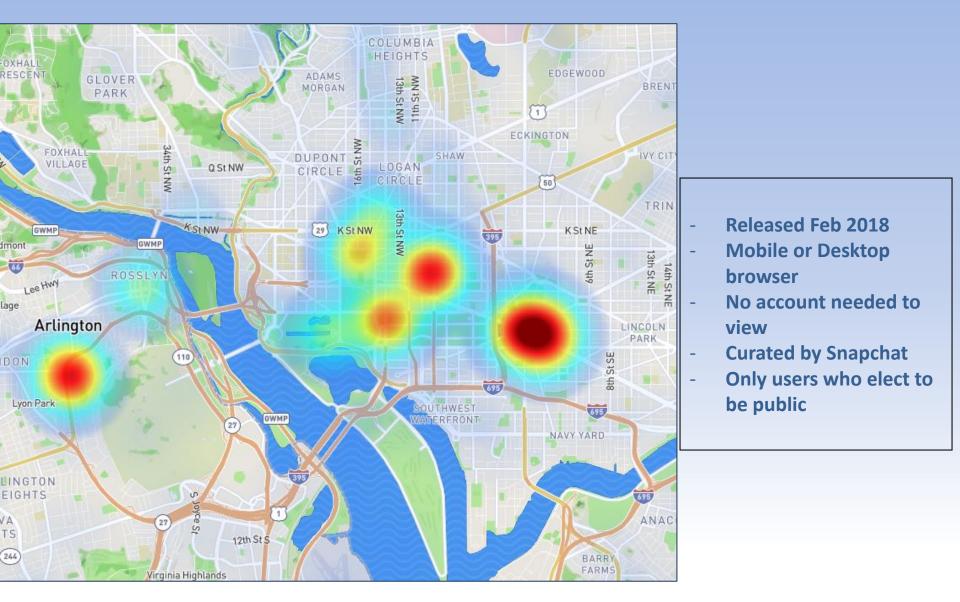
Main advantages:

- Multiple platforms
- 3rd party apps integration



Snapchat Maps (Snap Maps)

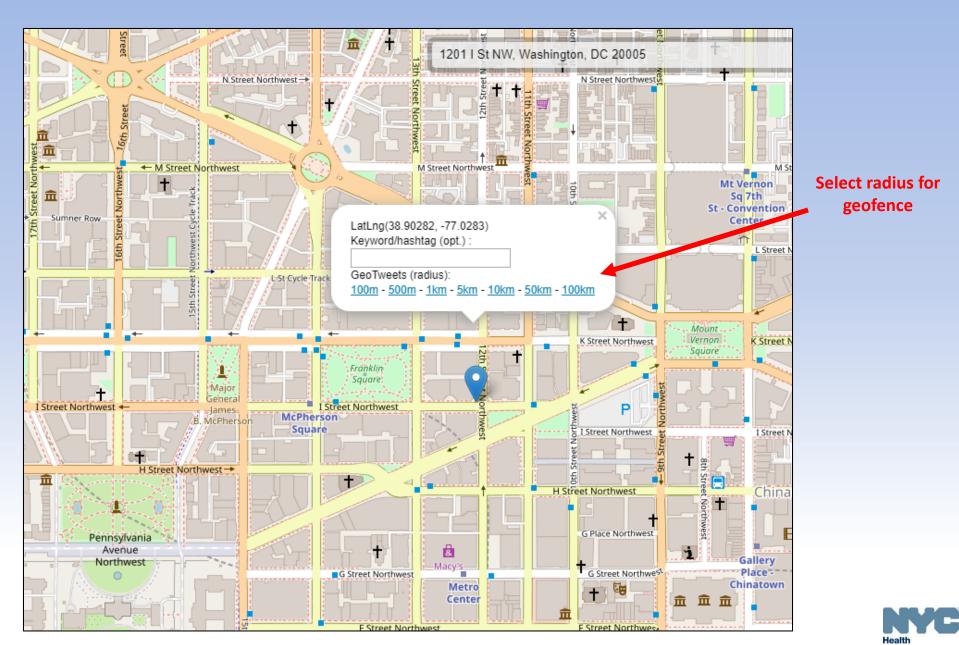
https://map.snapchat.com/





Easy GeoTweets

https://www.i-resilience.fr/app/easygeotweets/#



Visualizing / Curating Flagged Content





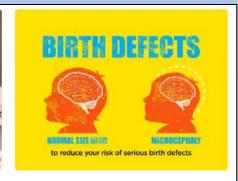
Legionnaires' disease June 2017

15 items



H7N2 virus 34 items

 \bigoplus



SMMT - Zika as of October 28

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0

Health



SMMT_Zika as of October 11 17 items



SMMT Zika as of October 6

3 items

 \oplus



If you have some \$\$\$\$







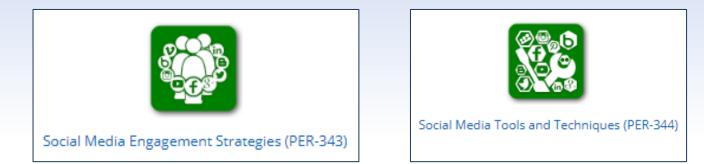


Resources/Training (1)



All FEMA accredited courses







Resources/Training (2)

🕷 U.S. Department of Health & Human Services



U.S. National Library of Medicine

Disaster Information

Social Media Analysis During Disasters

https://sis.nlm.nih.gov/dis_courses/social-media/index.html#One

Now that you have completed this course, you should be able to:

- Develop a plan for monitoring social media for disaster information
- Monitor social media for actionable information during disasters
- Choose reliable social media sources and use a checklist to verify content
- Practice techniques to lessen uncertainty and information overload.

Many links to other great courses within



Resources/Training (3)

https://asprtracie.hhs.gov/technical-resources/73/social-media-in-emncy-response/60



Hadi, T. and Fleshler, K. (2016). Integrating Social Media Monitoring Into Public Health Emergency Response Operations. Disaster Medicine and Public Health Preparedness. 1-6.

The authors describe how they used social media monitoring during public health emergency responses in New York City, including Ebola and Legionnaire's responses and for planned events. They offer concepts and implementations that can be applied to other agencies who want to build a social media monitoring team.

Hadi, T., MacGregor, J., and Lauren, M. (2017). Social Media Monitoring: 2016 Zika Response in NYC. Health Security. Health Security. 15(4).

> This article highlights how the New York City Social Media Monitoring Team (SMMT) coordinated the 2016 Zika planning and response efforts. The authors encourage local health departments leading or supporting emergency response to dedicate staff to monitoring social media to improve real-time situational awareness and understanding of public perception.





Countering False Information on Social Media in Disasters and Emergencies

Social Media Working Group for Emergency Services and Disaster Management

March 2018



Resources/Training (4)

Examples of best practices include:

- Establishing partnerships w/ local media outlets before disasters
- Using the Joint Information System to coordinate public info efforts of multiple jurisdictions / agencies
- Setting up a central website to debunk bad information

OLDER REPORTS

- Best Practices for Incorporating Social Media
 into Exercises March 2017
- From Concept to Reality: Operationalizing Social Media for Preparedness, Response and Recovery – April 2016
- Using Social Media for Enhanced Situational Awareness and Decision Support – *June 2014*
- Lessons Learned: Social Media and Hurricane Sandy – June 2013
- Community Engagement and Social Media
 Best Practices September 2012
- Next Steps: Social Media for Emergency Response – January 2012
- Social Media Strategy January 2012



Resources/Training (5)



Center for Public Health Readiness and Communication

SOCIAL MEDIA MESSAGE LIBRARY

CATEGORIES

- Natural Disasters
- Infectious Disease
- Accidental Disasters
- Intentional Disasters
 - Individuals with Access & Functional Needs

http://drexel.edu/dornsife/research/centers-programs-projects/center-for-public-health-readiness-communication/social-media-library/





- #SMEM
- #GSMChat
- #EMGtwitter



NOT Covered in Depth Today

Initial Risk Communication on Social Media

- Strategies / best practices *during* emergency, such as:
 - Frequent updates (photos & live video when possible) on what you know and don't know
 - Clear, concise and specific actionable messages
- FEMA #PrepTalk
- Recommend looking into CDC CERC Program
- Multi-day training topic for PIOs

CDC's CERC Program—Principles to communicate by in an emergency response and everyday life





Also NOT Covered (1)

Verification Tips/Tricks





CONSIDER THE SOURCE

Click away from the story to investigate the site, its mission and its contact info.



CHECK THE AUTHOR

Do a quick search on the author. Are they credible? Are they real?



CHECK THE DATE

Reposting old news stories doesn't mean they're relevant to current events.





Headlines can be outrageous in an effort to get clicks. What's the whole story?

SUPPORTING SOURCES?

Click on those links. Determine if the info given actually supports the story.



If it is too outlandish, it might be satire. Research the site and author to be sure.







Situational Awareness









There's a freakin truck on fire on the Queensborough bridge! Omg!



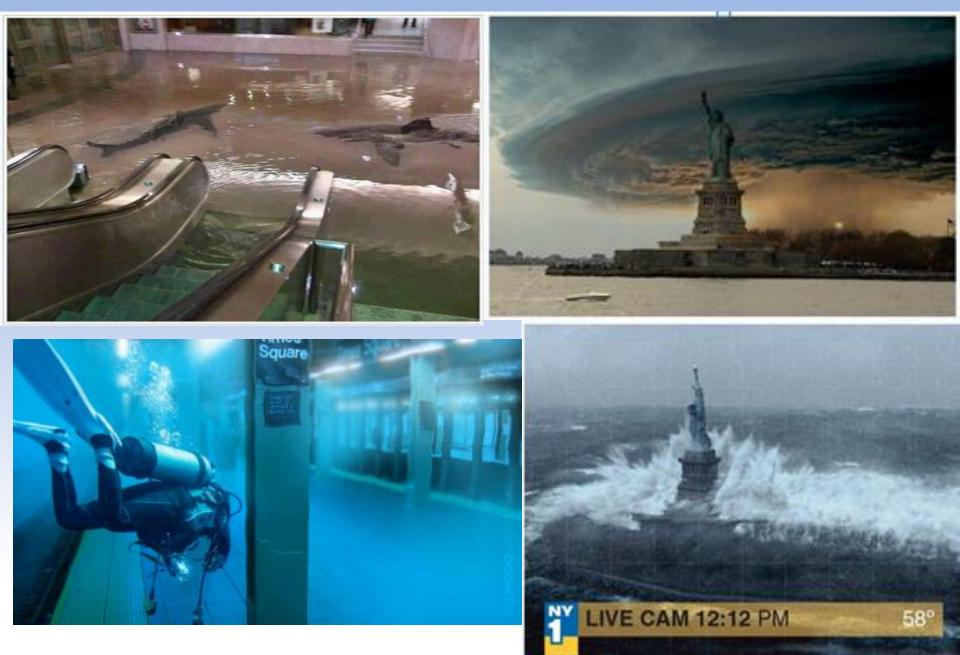
#not a good time to be on the Queensborough bridge



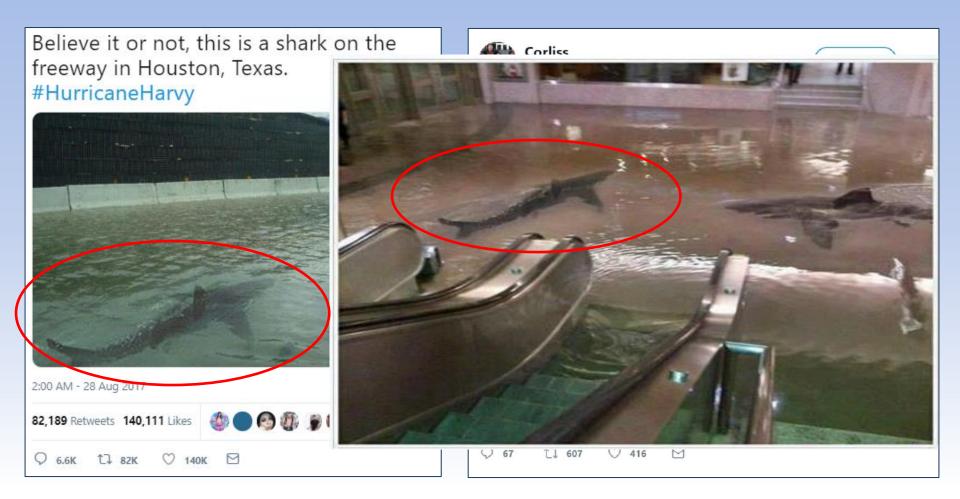
#queensboro #bridge #fire #blast #flames #pyro #wtf #queens #nyc



Fake Imagery – Classics from Sandy 2012



Fake Imagery – Harvey 2017





Reverse Image Searches



TinEye <u>https://www.tineye.com/</u>

Reverse Image Search

Search by image and find where that image appears online



Q

Tweetdeck



Google	JPG × trump rescues flood victims	0
	Q All 🔚 Images 🔀 Maps 🧷 Shopping 🗄 More	Settings Tools
	About 25,270,000,000 results (0.71 seconds)	



Image size: 600×406

Find other sizes of this image All sizes - Small - Medium - Large

Possible related search: trump rescues flood victims

Fake Photo Of Trump 'Rescuing' Flood Victims Goes Viral | HuffPost https://www.huffpost.com/.../fake-news-trump-flood-victims_n_5ba9419fe4b0375f8f... ▼ Sep 24, 2018 - An edited photo that appears to show President Donald Trump floating in a raft, extending a red Make America Great Again hat to a flood victim,



Recognizing Bots / Troll / Parody Accounts





Identifying / Recognizing Twitter Bot Accounts

Twitter Bot \rightarrow Account run by software, programmed to automatically do certain activities

- High Activity
- No profile pic or background
- Very few tweets and/or tweets with extremely high RTs
- Strange name or handle with jumbled letters/numbers
- Joined Twitter relatively recently

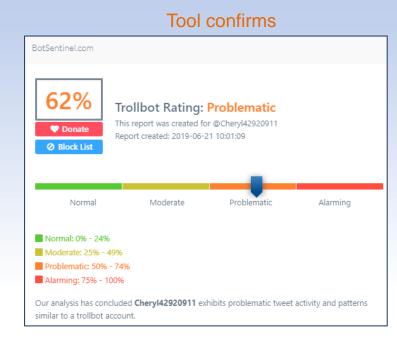
e.g. a typical reply to a measles tweet



<u>Cheryl</u> @Cheryl42920911 · May 7 Replying to @nycHealthy @NYCSchools and 2 others Unvaccinated illegal aliens storming our border and being placed on buses headed to NY and other major cities???? Hypocrites.

9 ti 02 🛛







Bot Analysis Tools

BotSentinel.com

7%

Donate

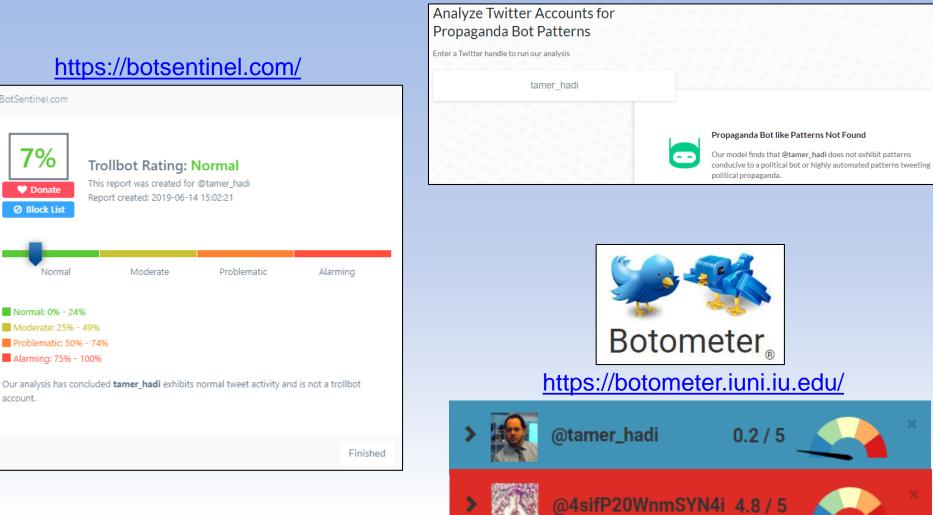
Ø Block List

Normal

Normal: 0% - 24%

account.







Public Health Emergencies in NYC

Measles (2019)
Ebola (2014)
Legionnaires' Disease (2016)
Zika (2017)



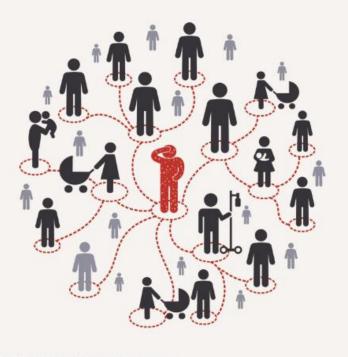
Measles Outbreak in NYC



DON'T WAIT. DON'T WAIT. VACCINATE.

TOGETHER WE CAN STOP

One person with measles can infect an average of 12 to 18 people without immunity.



PROTECT YOURSELF, YOUR FAMILY AND THE COMMUNITY. GET VACCINATED TODAY. CONTACT YOUR DOCTOR IMMEDIATELY.





Measles Outbreak Overview

- Outbreak began in October 2018 with 6 cases
- April 9, 2019 Declared Public Health Emergency (285 cases)
 - Health Commissioner ordered every adult/child who lives, works or resides in 4 ZIP codes and has not MMR vaccine to be vaccinated
 - Activated ICS and Social Media Monitoring Team
- Objectives:
 - Case Investigations
 - Program Audits / Closure (day cares, schools, summer camps)
 - Individual Notices of Violation
 - Public messaging
 - Community engagement
- As of 6/24:
 - 609 cases
 - o 29,220 MMR vaccinations





Commissioner Oxiris Barbot @ @NYCHealthCommr · May 15 Dangerous misinformation is spreading about NYC's #measles outbreak. Let me reiterate the facts:

- Immigrants are NOT spreading measles.

TOGETHER WE CAN STOP MEASLES

- Vaccines are SAFE and effective. They do NOT cause autism.
- Measles is a serious illness that can be prevented.

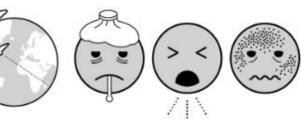
on.nyc.gov/2VXm17R



nycHealthy 🥺 @nycHealthy · Jun 4

Planning to travel internationally this summer? Make sure you and you're family are vaccinated against #measles. Even infants 6 months through 11 months should receive one dose of the MMR vaccine: on.nyc.gov/measles







nycHealthy 🗢 @nycHealthy · May 16

Symptoms of #measles include high fever, cough, runny nose, and red or watery eyes. A rash of red spots appears three to five days later. If you see symptoms, call your health care provider right away: on.nyc.gov/measles



Commissioner Oxiris Barbot 🥺 @NYCHealthCommr · Jun 17 New #measles cases: As of today, @nycHealthy has confirmed 596 cases since the outbreak began in October. To end this outbreak, we have to keep reiterating the truth: The MMR vaccine is safe and effective. It does not cause autism. More: on.nyc.gov/measles

SPREAD THE TRUTH NOT MEASLES



Announcing Public Health Emergency

Commissioner Oxiris Barbot O @NYCHealthCommr · Apr 9 Today, I am declaring a public health emergency due to the measles outbreak @nycHealthy is ordering all people in Williamsburg to get vaccinated against measles.	I his I weet is unavailable
Mayor Bill de Blasio Join me for an update on how we're confronting the measles outbreak in Williamsburg. pscp.tv/w/b3yljjF4blFy	This Tweet is unavailable This Tweet is unavailable
♀ 118 ℃ 535 ♥ 1.0K ☑	This Tweet is unavailable
can't twerk Follow @arcadek3lly Follow	This Tweet is unavailable
Replying to @NYCHealthCommr @nycHealthy	This Tweet is unavailable
The replies on here can't be real.	This Tweet is unavailable
2:04 PM - 9 Apr 2019	This Tweet is unavailable
2 Likes 🥯 🌑	This Tweet is unavailable



Measles Issues Observed Online

- Blaming outbreak on illegal immigration / sanctuary city of NYC
- Conspiracy with "big pharma" to make money on MMR vaccines
- Typical anti-vaccine myths:
 - Linked to autism
 - "Poisonous" chemical additives: mercury, aluminum and formaldehyde
 - Disbelief that these illnesses exist and/or not that dangerous
 - The existence of the National Vaccine Injury Compensation Program (VICP)
 - $\,\circ\,$ Harsh side effects of vaccines
- Blaming hipsters and gentrification of Williamsburg
- Train/subway safety concerns about riding train with infants under 1 who cannot be vaccinated yet
- Public not always clear where to get free/low-cost vaccines



Ebola Case in NYC (10/23/2014)









Timeline of Significant Ebola Events in USA

Orange Dates = NYC Events

- 07/31/14 News that 2 Americans w/ Ebola to be transferred to Emory from Liberia
- 08/01/14 NYC DOHMH conducts largest no-notice POD full-scale exercise in NYC History
- 08/05/14 NYC begins Ebola preparedness meetings
- 09/30/14 Dallas patient with confirmed Ebola
- 10/03/14 NYC DOHMH officially activates ICS

- Social Media Monitoring officially begins

- 10/08/14 Dallas Patient dies in hospital
- 10/12/14 Nurse 1 confirmed Ebola
- 10/15/14 Nurse 2 confirmed Ebola
- 10/23/14 NYC Case confirmed
- 11/11/14 NYC Patient Discharged

Over 1 year later

12/29/15 - Active Monitoring Call Center Shutdown
- 5791 people monitored
02/02/16 - NYC DOHMH deactivates for Ebola
- 1 year, 3 months, 30 days



07/31/14 - 2 Americans w/ Ebola transferred to Emory

08/01/14 - NYC DOHMH conducts largest mass prophylaxis full scale exercise in NYC History (#RAMPEX)

Today @nycHealthy is running the largest no- notice emergency exercise in city history! Learn more about #RAMPEx:	Today is our citywide emergency response exercise w/ approx 1,500 participating. If you see us in action, tweet your photo & add #RAMPEx!	
on.nyc.gov/1qsMq3F	RETWEETS LIKES 16 4	
RETWEETS LIKES 29 7	6:45 AM - 1 Aug 2014	
6:35 AM - 1 Aug 2014		
★ 13 ♥ ···	nycHealthy OnycHealthy Following	
Reply to @nycHealthy	Today's #RAMPEx exercise will help ensure that NYC can protect the public's health & safety in an emergency. FAQ:	
dingbat @dingbat · 1 Aug 2014 .@nycHealthy Finally. Something more useful than nasty anti-smoking ads at dingentime that marked the market by the market for the second to be addressed by the second to be	on.nyc.gov/1nXj8wJ	
dinner time that makes too many NYers reach for the remote	5 metweets	
	8:05 AM - 1 Aug 2014	



News Coverage on Exercise



Government Conspiracy???





<u>August - October 2014</u> → Plenty of False Alarms



Eyewitness News 🤗

Following

Ö

Mount Sinai patient with high fever and gastrointestinal symptoms being tested for Ebola #BREAKING 7ny.tv/1p5waro



Sarah Cordelia @sarah_cordelia

aright well an ebola patient has been ADMITTED TO MOUNT SINAI aka MY PLACE OF WORK today so goodbye cruel world i shall miss you



Jo ē @dreamxtrap

SOMEONE MIGHT HAVE EBOLA IN MT SINAI WE'RE ALL GONNA DIE

🔰 3 days ago h Reply 🛱 Retweet 🏠 Favorite 📿 1 more



Mike Hollan @mike_hollan

I'm not worried about #Ebola because I ride the NYC Subway everyday, and there's shit down they aint even got a name for yet.



Following

After consultation, Health Dept. has concluded that a @MountSinaiNYC patient is unlikely to have Ebola. Statement: nyc.gov/health

🛧 Reply 🛟 Retweet ★ Favorite 🚥 More 🛛 Assign To 🦉 HootSuite



6:30 PM - 4 Aug 2014

11



No Shortage of Scares....

OutFrontCNN @OutFrontCNN	0	🌣 🛃 Follow	
Dhabi at #JF	DC holds plane from K. @miguelmarquez atient being tested fo		
	avorited 🚥 More Assign To 🦉 HootSuite	2	
RETWEETS FAVORITES	(), (), (), (), (), (), (), (), (), (),		
		Can anyb everyday @nytime Chad McCo Lemme ge to NYC fro	ordic @Chad_in_Africa · 30m et this straight: CNN is telling me a kid pukes blood on a plane m Abu Dhabi, never contacted Ebola but gets tested for it?
		"Plane hel	e Smith @PRINCEJIMMY12 · 29m d at NYC airport" Ebola is here in the U.S. & already We're all going to die:
	8	1.20	log @53mpg · 30m n Abu Dhabi being held in NYC with child spitting up blood. 1 🛧 1 🚥

Psychic ???





mmm NYC subway and I can smell the Ebola in the air 2:07 PM - 22 Oct 2014



The Very Next Day....



Ebola Case in NYC (10/23/2014)

Ebola Patient

NEW YORK CITY



Member of "Doctors Without Borders"

Returned Last Week From Guinea

Cooperating with Health Officials

Craig Spencer BREAKING NEWS NYC DOCTOR TESTS POSITIVE FOR EBOLA BEING TREATED IN MANHATTAN







Overall NYC Ebola Summary

- DOHMH Led, Large & Resource-Intensive Interagency Response
 - 25 city, state, federal agencies
 - 1000+ DOHMH staff and 500+ MRC volunteers
 - Cost exceeding \$6.5M (\$23M citywide)
- Coordinated NYC hospitals to identify and isolate potential EVD cases and worked w/ 5 hospitals to ready treatment centers
- Conducted extensive epidemiologic investigations with rapid laboratory diagnostics for potential EVD cases in NYC.
 - 12 EVD tests performed, 88 Persons Under Investigation.
- Developed active monitoring call center
 - 5800+ travelers via JFK
 - 114 healthcare workers
 - Quarantined 3 case contacts for 21 days.
- Created and distributed culturally sensitive material
 - 100,000+ "Am I at Risk?" palm cards (9 languages)
 - Utilized Community Outreach Teams to canvass 14 neighborhoods
 - Conducted 116 community engagement and education events.



DAY 1: 10/23/14

Notification: Patient called MSF → MSF called DOHMH

DOHMH coordinated w/ FDNY-EMS & Bellevue Hospital for safe/rapid transportation w/ minimum exposure to others

Case Investigation and Contract Tracing:

- Interviewed patient by phone before EMS transfer
- Began contact tracing while patient en route to hospital

Lab Testing:

- DOHMH staff at Bellevue assisted w/ packing and transporting
- Test results returned ~3 hours after specimen received

Press Conference at 6:30pm Confirming Case



*** CRITICAL SOCIAL MEDIA DISCOVERY ***

- Patient information leaked from interagency conference call!
- Discovered by Social Media Monitoring Team immediately
 - Reported to PIO and Incident Commander
- Prior to official press conference planned for 6:30pm
- Prior to confirmation of lab results
- Changed approach to press conference and preparing Commissioner talking points
- Required immediate risk communication and community engagement



1st Article Leaking Info @ 2:44pm



Dr. Craig Spencer recently returned from Guinea where he was treating patients with Ebola.



http://nypost.com/2014/10/23/nyc-may-have-its-first-ebola-case/

1st Tweet @ 2:51pm





Doctor who treated **#Ebola** patients rushed to NYC hospital - The big Apple may have it's first case of Ebola nypost.com/2014/10/23/nyc...

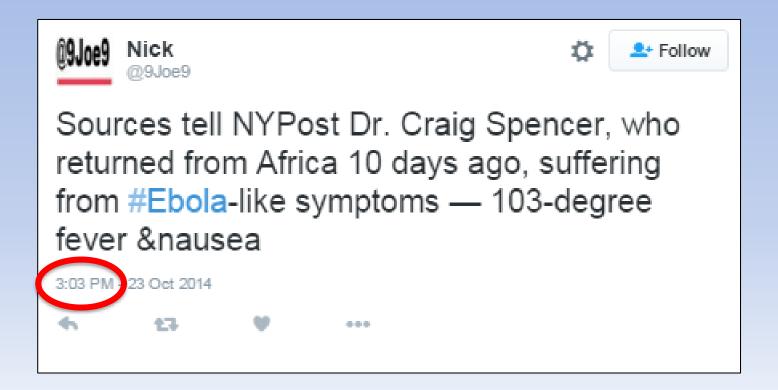


Doctor who treated Ebola patients rushed to NYC hospital A 33-year-old Doctors Without Borders physician who recently treated Ebola patients in Guinea was rushed in an ambulance with police escorts from his Harlem home ... nypost.com





1st Time Patient Name Appeared in Tweet @ 3:03pm





ONLINE MADNESS ENSUES





Agency Response on Twitter - ~40 mins after leak reported



Initial Leak Caused Lots of Misinformation and Panic

Press Reported Wrong Bowling Alley!



Stephanie Guerami @sgdahi · 23 Oct 2014 Does @CNN realize that they keep showing footage of the @BrooklynBowl instead of @TheGutter as they report this #Ebola case? #NotTheSame

Matt Quering and 53 others follow



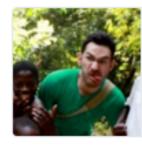
Michael Calderone @ @mlcalderone · 23 Oct 2014 Doctor with Ebola was reportedly at The Gutter and Brooklyn Bowl last night: nydn.us/1tOJZib



Kurt McRobert @KurtMcRobert · 23 Oct 2014 The uber Ebola guy went to Brooklyn Bowl last night so now Gutter is closed tonight #absurd #williamsburg



New York Daily News ② @NYDailyNews · 23 Oct 2014 Gutter bowling alley, on N. 14th St. in Williamsburg, Brooklyn, closed since Ebola-infected Dr. Spencer was there. nydn.us/1FK1ovF



Doctor quarentined in Bellevue Hospital after positi...

A Harlem doctor who treated Ebola patients in West Africa before returning to New York last week tested positive Thursday for the deadly disease — the first suc...

nydailynews.com





0





Matt Tomlin @TomlinM



New York City Health Dept spokesman tells international media mob that the Gutter bowling alley is safe. #Ebola 12:41 PM - 24 Oct 2014 · Brooklyn, NY, United States



<u>Cleaned & Re-Opened</u> <u>Bowling Alley</u>

"We cleaned every square inch of the place – every hole in every bowling ball" said Sal Pain, **Bio-Recovery's** chief safety officer.



Subway Hysteria



クイグリー @yeyquigley - 24 Oct 2014 If you go around licking them. "@SCBegley: The question on everyone's mind: Can you get Ebola from a subway pole? ti.me/1D4oatO"



Can You Get Ebola From Touching Infected Surfaces Some sobering information time.com



Max Rasbold-Gabbard @mrasboldgabbard - 24 Oct 2014 For those New Yorkers wondering: Did I catch Ebola on a subway? buff.lv/12aaXcw



Feeling sick?

- Did you recently return from Africa?
- · Have you exchanged bodily fluids with Ebola patients?
- Did you inexplicably lick the subway pole that Dr. Craig Spencer used?

Did you answer "no" to those three questions?

Then you probably don't have Ebola.

graphic by MTA / @ddiamond

Take care.

Did you catch Ebola on a subway? A quick quiz.

Did you inexplicably lick the subway poles that Dr. Craig Spencer used? That may have been a bad idea.

VOX:com



RhinoFan App and 7 others follow

Steven Bertoni @ @StevenBertoni 24 Oct 2014

Does this mean I can leave my rubber gloves at home? Why You Won't Catch Ebola On The New York City Subway onforb.es/10gZzn7 @forbes



Why You Won't Catch Ebola On The New York City Subway Ebola has come to New York City. A heroic physician who returned to the city last Friday after treating patients in Guinea with Médecins Sans Fronti... forbes.com



4

Susan Bennett and 44 others follow

Sally Kohn 😔 @sallykohn · 23 Oct 2014 In fairness. New Yorkers have reason to be a tad more freaked out about

#Ebola. A lot of fluid exchanging happens on the subway.... **13** 4 6 ...



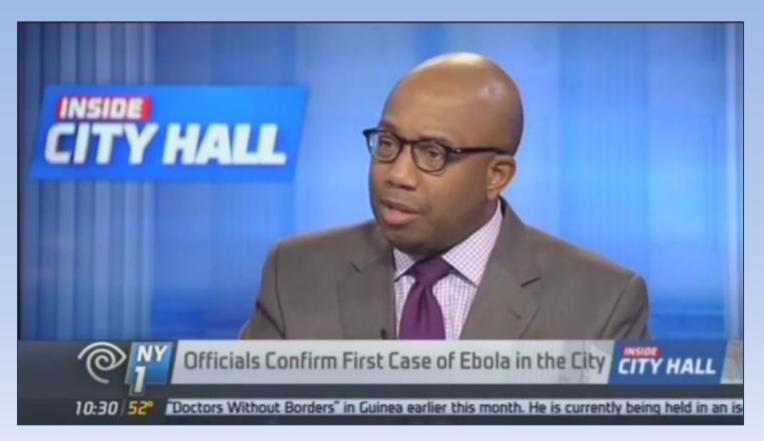
Alex Goldmark @ @alexgoldmark · 24 Oct 2014 Ebola on the NYC subway? A FAQ bit.ly/1sfwAZ6 @TransportNation lookin out



Ebola on the Subway? Here's Your FAQ You avoid grabbing the pole. You use hand sanitizer liberally. But should you worry about Ebola underground?

wnyc.org

Lots of Great Subway Advice Too!



"If you come across some strange mucus or feces or something out there...on the subway, on the street or somewhere else...don't eat it."



Cab / Uber Hysteria



Matt Soleyn @MattSoleyn · 23 Oct 2014 CNN reporting Dr. Craig Spencer took Uber to get to #Brooklyn, in contrast to reports saying he took the subway. #Ebola #NYC



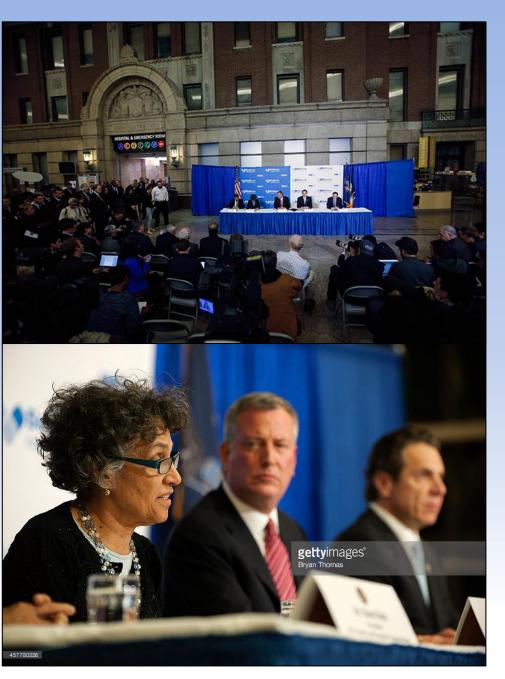
Nathaniel E. Baker @natbaker · 23 Oct 2014 Okay, so if I don't take @Uber I have no chance of getting Ebola? Did I get that right?



Kashif Osman @WizKashifa · 23 Oct 2014 You're more likely to get hit with a hammer by your Uber driver than to catch Ebola from sitting in an Ebola infected Uber.

baby huey @shelz_on_chill · 23 Oct 2014 Son took the subway from Harlem to Brooklyn . . . and went back in an Uber? WITH EBOLA!? Iffe! They really trying to get us outta here





1st Press Conference





Max Morgan @MaxTMorgan

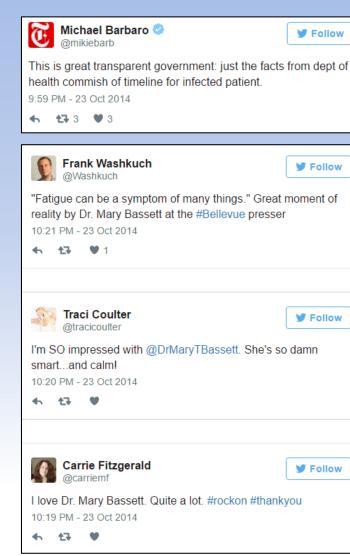
Follow

Mayor de Blasio: confirmed case of Ebola in NYC. 9:49 PM - 23 Oct 2014 · Manhattan, NY, United States



Public Sentiment on Press Conference

Positive



Negative





SM SitRep Summary Day 1 (10/23)

Mixed accounts of patient's timeline in media:

- Reports he came back 10 days ago actually 7 (10/17)
- Most sources initially reported "Brooklyn Bowl "not "The Gutter".
- Initial reports he took Uber to Brooklyn instead of back from Brooklyn.
- Details around subway travel emerged later on; initial reports focused on the cab ride
- Residents of Harlem and Williamsburg expressed increased concern and panic about having been in close proximity to the patient.
- Many jokes around bowling and Ebola, humorous scenarios related to getting Ebola from bowling, and hipster-related jokes
- Viewers of the press conference found Dr. Bassett calming, reassuring, and authoritative
- Continues to be criticism around her statement that the patient was self-quarantining.



<u>Day 2</u>

We get a clearer picture of patient activities and share them at 2nd Press Conference

Oct 21 – No symptoms – felt fatigued, but no fever

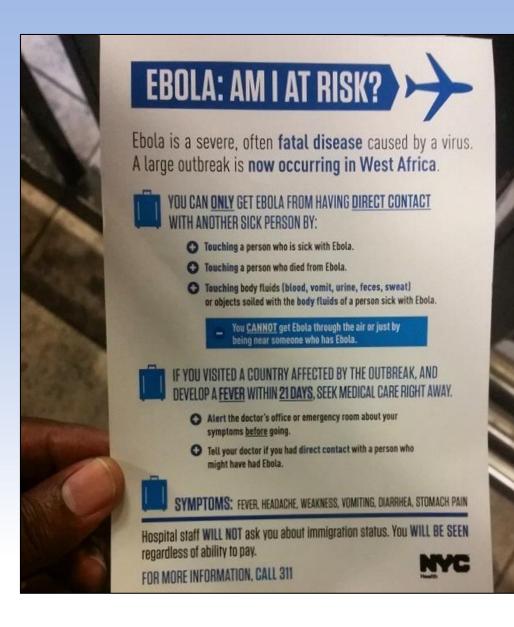
- Visited "The Meatball Shop" Restaurant
- "Blue Bottle" Coffee Shop on High Line
- 1 Train Home to Harlem

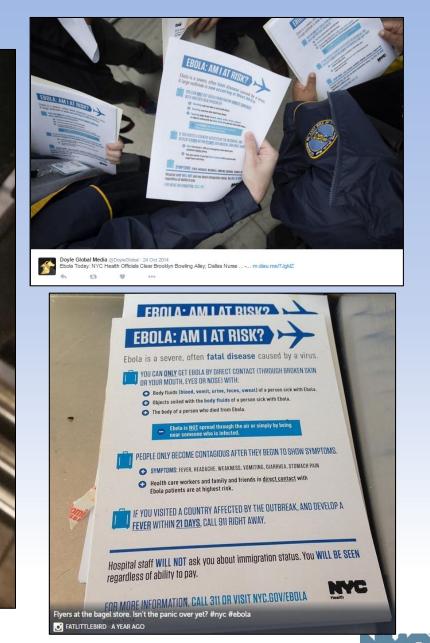
Oct 22 – No symptoms – felt fatigued, but no fever

- Jogged 3 miles in W. Harlem neighborhood
- Took A and L Train lines to Williamsburg, Brooklyn Bowling Alley
- Took Uber home
- **Oct 23 Low-grade fever**
- Fever → Called MSF → DOHMH Notified



Community Outreach Teams







Bill @Bil

Bill de Blasio 🥝 @BilldeBlasio

y Follow

Enjoyed a great lunch @MEATBALLERS yesterday with @Chirlane and @DrMaryTBassett.

12:54 PM - 26 Oct 2014

1 22 9 37



HuffPost Politics @ @HuffPostPol - 25 Oct 2014 Bill de Blasio dines at the Meatball Shop to calm Ebola fears huff.to/1taiDBe



NYC Mayor Eats At Same Restaurant As Ebola Patient To Calm City's... New York Mayor Bill de Blasio ate lunch at The Meatball Shop in Manhattan's Greenwich Village Saturday, four days after Ebola patient Dr... huffingtonpost.com

DAY 3 and Weeks Later



howard wolfson @howiewolf



She has been terrific @NYTMetro: Commish @DrMaryTBassett has helped quell Ebola fears as NYC reassurer-in-chief nyti.ms/1oH4afY"

1:57 PM - 25 Oct 2014



NYC Health Commissioner Has Helped Que... Thrust into the limelight, the health commissioner, Dr. Mary Travis Bassett, has proved a calming presence as the city grapples nytimes.com

6 13 15 ♥ 11



Matthew Chayes @chayesmatthew

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.@DrMaryTBassett's Ebola presser makes @LastWeekTonight



Last Week Tonight – John Oliver

Episode from 10/26/14



https://www.youtube.com/watch?v=kppVuXppaJs



Misinformation on Ebola Cures / Prevention

Marijuana cures Ebola?



CEO @SlasayStudio · 5 Nov 2014 Doctor Suggests That Marijuana Can Protect You From Ebola topinfopost.com/2014/10/20/mar...



Naloxone Project @Sivana_Project · 21 Oct 2014 \'Marijuana Cures Ebola\' Claim Investigated: Cannabis Researchers Weigh In -International Business Times au.ibtimes.com/articles/57020...

Garcinia Kola (Nut)?



Vinnie Klemer @VinKlem · 27 Oct 2014

The cure for Ebola has already been discovered its call garginia kola. Look it up! They don't want the mass populace to know this. #lookitup



sleeping_ghost @Bourgeoisie187 · 27 Oct 2014 The cure for Ebola is a nut called Gamica Kola. So everybody can stop being paranoid and behaving stupid.

Bathing / Drinking Salt Water?



OhLooWahPheemi @Olufemi_Whit · 4 Nov 2014 All you have to do is drink 2 buckets of salt water "@Gidiboy2013: Ebola!!!!!!! I'm too young to die abeg"@Olufemi_Whit: @Gidiboy2013 kenya"

OOC @arosso77 · 2 Nov 2014

My friend said that when she was in Nigeria, her mom made her bathe in and drink salt water because she believed it would prevent Ebola

Nano-Silver?



James Russell Kalles @JimKalles · 5 Nov 2014 Nano-silver kills Ebola, Get some Silver nitrate it mat just save your life down the road.. They don't want us to know the cures..



Mark Realmz @_ReaLmz_ · 25 Oct 2014 #NANO SILVER IS A #NATURAL CURE, SCREW WHAT THE FDA SAYS ABOUT #EBOLA CURES THEIR VACCINE IS POISON THAT HAS MICRO RFID CHIPS IN IT! #WORLD



@WinterChill_ 9 Nov 2014 @LaurenJauregui #votefifharmony I'LL GIVE YOU SOME BLESSED ANTI EBOLA SALT AISBSISNZN



Ebola Summary

Social media monitoring creates awareness amongst agency leadership for what most concerns the public

Helps leadership create strong messaging

Lots of repetition to battle rumors / misinformation / confusion

Cannot eliminate misinformation – can focus on what is most prevalent and address in public messaging

Social media summaries / stats included in Situational Reports





Joel Pavelski 🥝 @joelcifer	y Follow
This Ebola doctor visited more places in NYC while in ' solation" than I ever have on a Saturday when I'm feelin 10:29 PM - 23 Oct 2014	
 ▲ 1353 ♥ 315 	
Alex Baze @bazecraze	Follow
EBoLa does sound like a hot NYC neighborhood. Ea Bowery and LaFayette? 10:27 PM - 23 Oct 2014	ast of
4 41 565 9 601	

Ebola Humor





•

Aris Pina @PunchZoneAris · 23 Oct 2014 So this morning I sneezed on the subway and 2 ladies gave me the "Ebola eye" and scurried away from me. Highlight of my day #Ebola #NYC

....

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4 17

13



Sexy Ebola Nurse Costume SKU: 448697477

Price: £45

-

Sexy Ebola Nurse Costume includes:

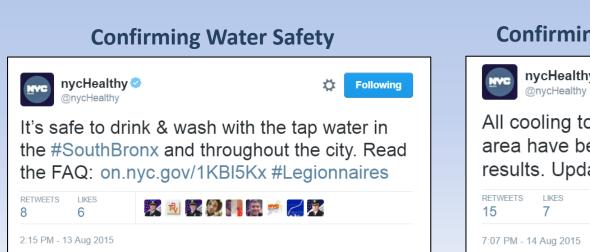
- Hazmat Dress
- Hazmat Leggings
- Safety Goggles
- Prop Gas Mask

* PLEASE NOTE: this item is not suitable for protection against hazardous materials.

ADD TO CART

Legionnaires' Disease Outbreak

(Oct 2014 South Bronx)



Confirming Cooling Tower Disinfection





Identifying Foodborne Outbreaks Using Yelp & Twitter



- Develop
- July 20

 Yel
- Program foodboi
- Ask use
 Col
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NYC Foodborne @NYCFoodborne · 37m

Replying to

Sorry you were sick! Did you know that the **NYC Health Department** investigates food poisoning caused by NYC restaurants? Help us prevent #foodpoisoning from happening again by providing more information here: a816healthfbt.nyc.gov/survey?documen...



Curious about how we found your Tweet and who contacted you? The NYC Health Department is conducting a research project with Columbia University on foodborne illness in NYC. We'd like to ask you a few questions.

Please complete this form. The information you provide will be sent to the NYC Health Department and may prevent others from getting sick.



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In Summary

Must have staff or partnership for social media capability. It is now a mandatory communication tool during public health emergencies

Even with the best social media analytical tools, monitoring still requires a human touch (e.g. verification, interpretation, reporting to leadership, detecting sarcasm, etc).

Combination of tools needed.

Pick up on new keywords / trends and modifying queries as emergency evolves.

A lot of preparation can and should be done in advance.

Build a VOST relationship (whether or not you have internal capacity)

Stay on top of current social media trends.

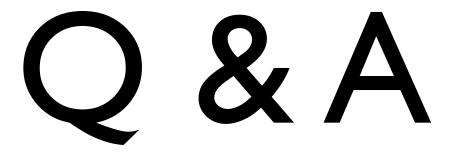


Questions ???

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Thank You

