Concerns Around Opposition to the Green Pass in Italy

Social Listening Analysis (plus some ethical reflections)

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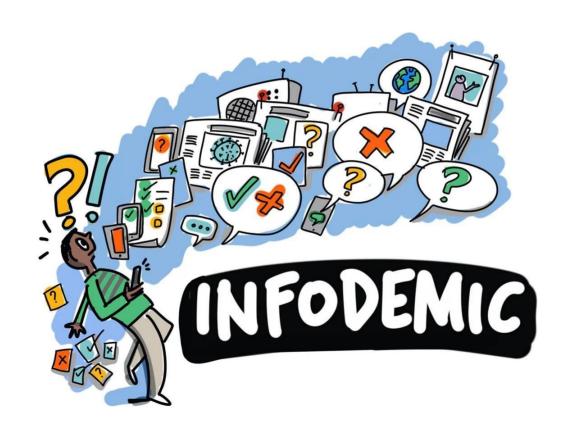
TOPICS



Institute of Biomedical Ethics and History of Medicine

- 1. What's an infodemic?
- 2. How do we listen to people?
- 3. What are the ethical implications?





What is an infodemic?

- Too much information, including false or misleading information,
- in digital and physical environments,
- during a disease outbreak.
- Causes confusion and risk-taking behaviours,
- leads to **mistrust** in health authorities,
- undermines the public health response.
- Can intensify or lengthen outbreaks
- With growing **digitization**, information can **spread more rapidly**. This can help to more quickly fill information voids but can also amplify harmful messages.

WHO, Cross-Regional Statement on "Infodemic" in the Context of COVID-19

How to tackle an infodemic?

- provide free, reliable, trustworthy, factual, multilingual, targeted, accurate, clear and science-based information,
- ensure dialogue and participation of all stakeholders and affected communities during the preparedness, readiness and response,
- enhance **transparency, accountability and trust**, which is essential to achieving adequate support for and compliance by the general public,
- increase societal resilience against disinformation,
- tackle the creation and circulation of false or manipulated information, in an objective manner and with due respect for citizens' freedom of expression, as well as public order and safety.

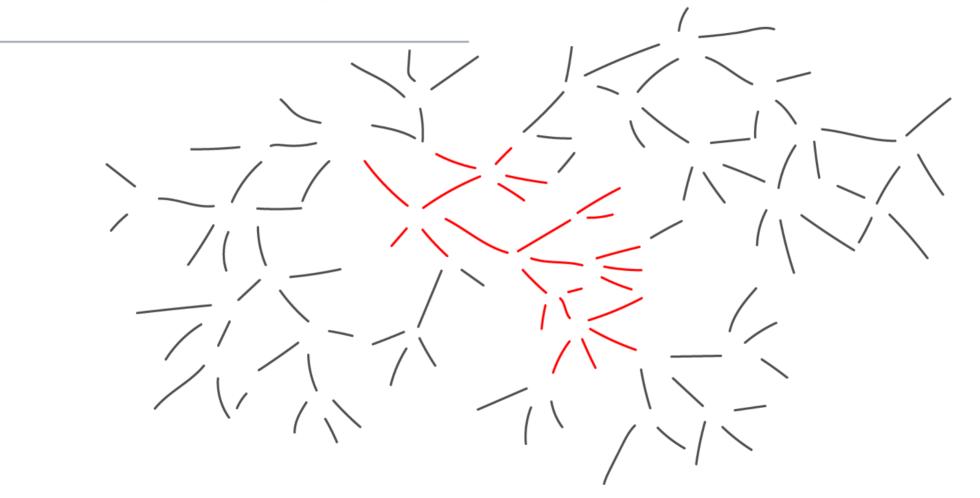
WHO, Cross-Regional Statement on "Infodemic" in the Context of COVID-19

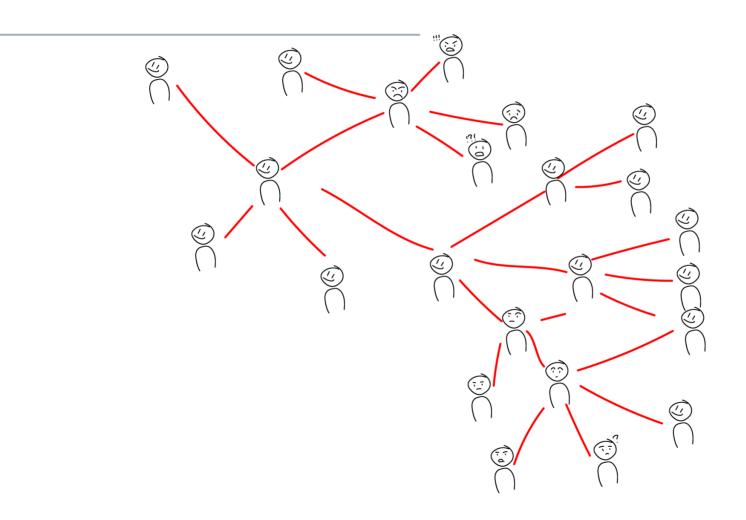
Spitale, Giovanni, Biller-Andorno, Nikola, and Germani, Federico. «Concerns Around Opposition to the Green Pass in Italy: Social Listening Analysis by Using a Mixed Methods Approach». *Journal of Medical Internet Research* 24, n. 2 (February 2022): e34385. https://doi.org/10.2196/34385











Some good questions:

What are these people saying?

How and how much?

Who are they?

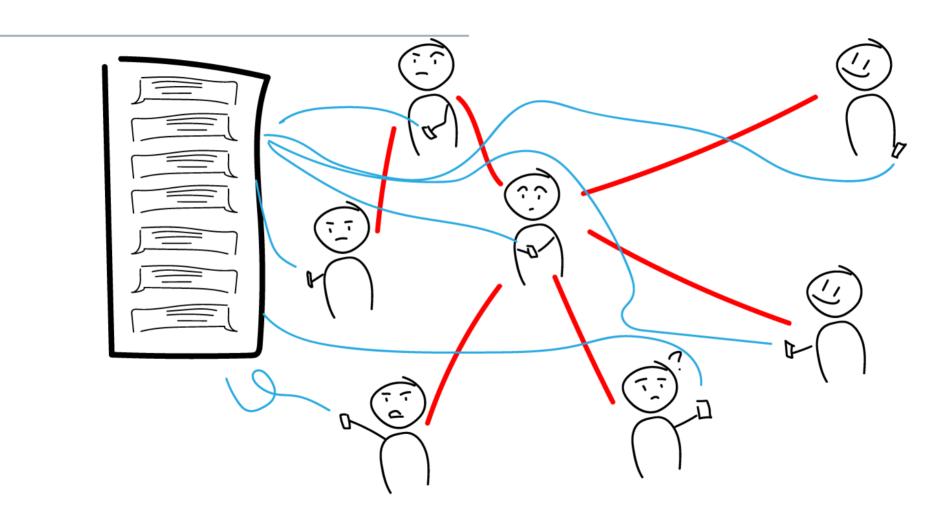
Why do they want a fake GP?

Are they vaccinated?

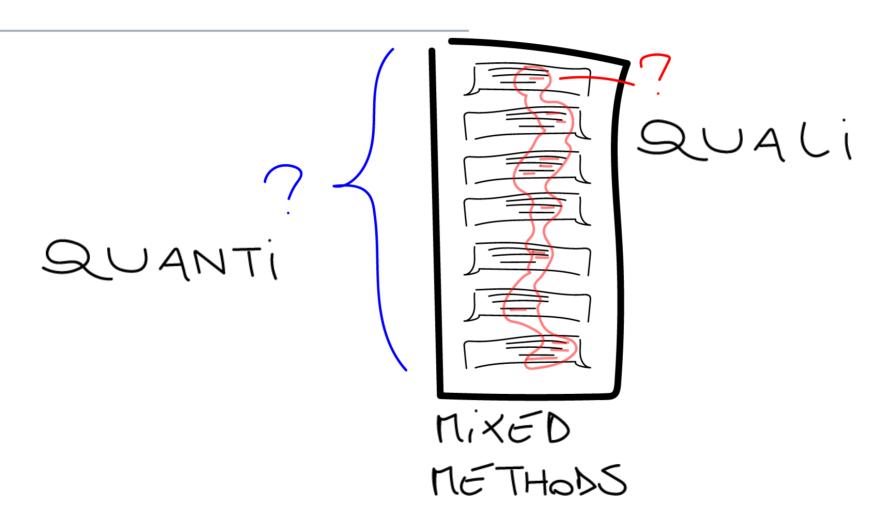
Are they antivaccinationists?

What are they afraid of?

What are their plans?



Category	Group description	n of users	n of messages
no green	university, north	1770	7356
pass			
	university, center	5168	10464
	university, south	479	1879
	generic	12295	33707
	Total	19712	53406
control	parrots	296	48494
	videogames	750	43322
	generic	294	10588
	generic	210	1453
	generic	218	21611
	Total	1768	125468



Correlation matrix of the 15 most common lemmas

1.00

0.75

0.50

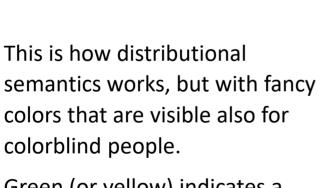
0.25

0.00

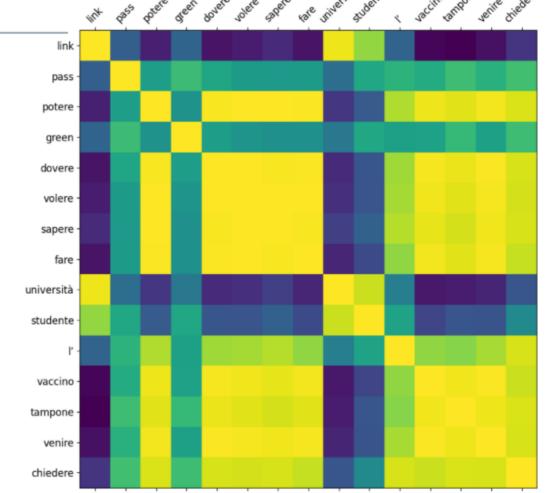
-0.25

-0.50

-0.75

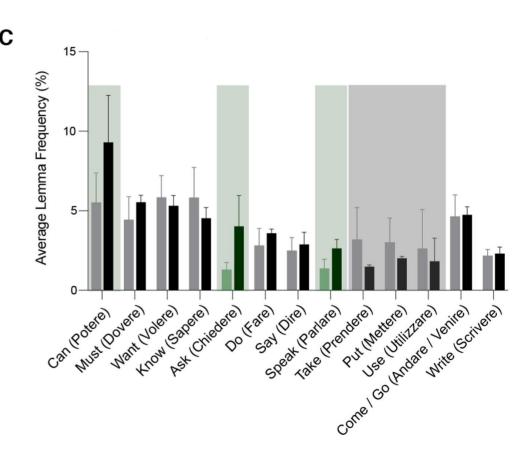


Green (or yellow) indicates a strong correlation, blue (or purple) a low one.



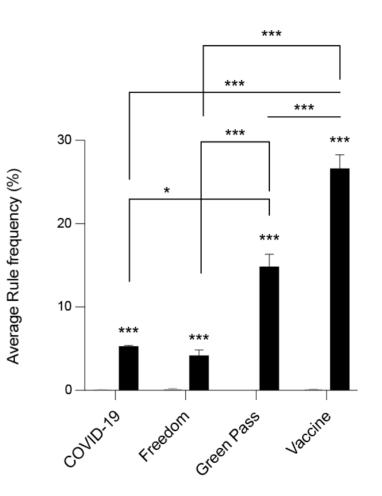
The no gp dataset contains many lemmas in the spectrum of acting (can, must, want, pretend, ...)

The no gp dataset contains many lemmas in the law spectrum (law, article, ...)



Rules to identify 'freedom', 'vaccine', 'green pass' and 'covid19' fired much more frequently in the no gp dataset. Good, the system works.

The 'vaccines' rule is the one that fired most frequently in the no gp dataset. More than the 'green pass' rule.



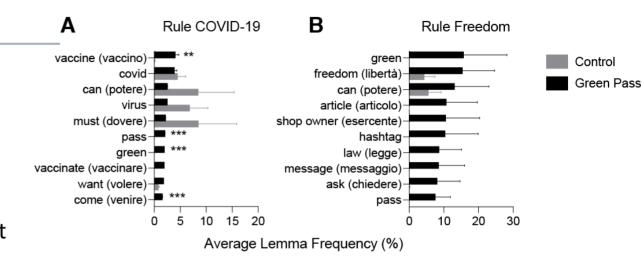
Control

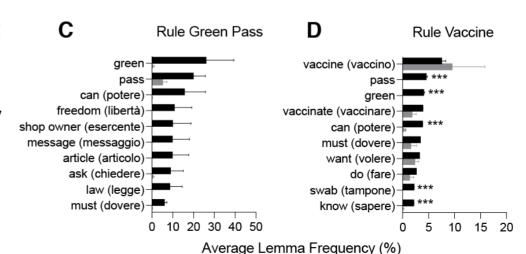
Green Pass

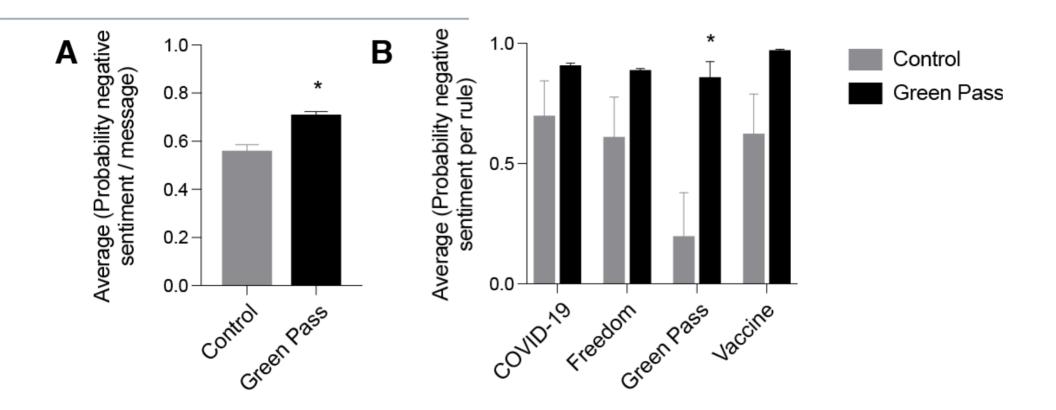
Anything of note?

Maybe in plot D?

The green pass discussion occurs when vaccines are discussed, but not vice versa. Critics of the green pass tend to share anti-vaccine views, but do not want their arguments against the green pass to revolve around their anti-vaccine views. Rather, they prefer to support their position by discussing limitations on personal freedom and advancing legal considerations.







Green pass and vaccines 1

On the other hand, it is a big mistake to take a stance on vaccines. Those who want to do so should do so. The point is only to be against this limitation of freedom and many vaccinated people are against the green pass. Do not introduce divisive or extremist elements that vote the initiative down (university, south, Pos. 742)



how can one ignore the vaccine issue if it is literally the main option for getting a pass?? (university, north, Pos. 6693)

Green pass and vaccines 2

We must rebel, this vaccine is a gene therapy with no guarantee that it will work. Vaccinated people are just as infectious as unvaccinated people, it is clear that this vaccine does not protect against COVID. (university, north, Pos. 2612)



Their aim is to manipulate human beings by injecting them with a serum containing graphene, which can react with certain frequencies and modify the behaviour of cells. By changing the behaviour of cells, you can change the behaviour of human beings. (generic, Pos. 72471)

It's a trap!

IT IS CLEAR THAT THE GREEN PASS IS AN INSTRUMENT OF POLITICAL DISCRIMINATION THAT HAS NO RELATION TO THE ACTUAL HEALTH STATUS... (university, center, Pos. 3572 – 3579)

Do you still have to realize that even if the Regime decides to withdraw the COVID PASS, to let you go back to work, you have already become citizens of a totalitarian Regime? Citizens of a lousy Regime based on lies, on the progressive elimination of freedoms, on the violent suppression of dissent? (generic, Pos. 2127)



Vaccines are what this battle is for

The main argument must continue to be that one must be able to refuse an injection, whatever it may be. The body is mine and I decide. And if you were to be convinced that the serum prevents x% of the infection (as some try to suggest), would our whole battle fall apart? I certainly hope it's not the case. (university, north, Pos. 24367)



Ethical implications AcTiVE

Ethical implications



Spitale, Giovanni, Germani, Federico (co-first), and Biller-Andorno, Nikola. «The PHERCC matrix. An ethical framework for planning, governing, and evaluating Risk and Crisis Communication in the context of Public Health Emergencies». American Journal of Bioethics (submitted, May 2022. Preprint: https://doi.org/10.5281/zenodo.6559205)

Ethical implications

The PHERCC matrix

	Process					
	Evidence	Initiatior	Channel	Message	Public	Feedback
	The scientifical reasons that justify, require, and inform the PHERCC action.	The entity (local, regional, national or international) who initiates the PHERCC action.	The system through which the PHERCC action is delivered.	The content of the PHERCC action.	The receiver(s) of the PHERCC action.	How the public receives the message, what the public knows about the crisis.
Principles						
Openness	Is the evidence of public domain and accessible?	Is the initiator committed to open poli- cles?	Is the channel infrastructure developed with open source software?	Is the message distributed under an open license (e.g: CC-BY-SA)?	Is the public openly available to receive the message? (e.g. presence online, social media, etc).	Is the content of the public's feeback openly accessible (after anonymization) to everyone?
Transparency	Has the evidence been generated through a transparent process?	Is it clear who the initiator is, and under which principles or regulations they operate?	Is it clear who operates the channel and how the channel works?	Is the aim of the message transparent? (e.g: eliciting a specific behaviour, enhancing understanding,)	Is (aggregated and anonymized) infor- mation about the public visible and inferable?	Is it clear how the feedback was collected and by whom?
Inclusivity	Is the evidence generated taking into account different socio-demographic segments?	Does the initiator include a plurality of voices in the definition of the strategy and of the content?	Does the information delivery strategy take into account the specific needs of different segments of the public?	Is the message tailored to the needs and specificities of different segments of the public?	Does the definition of the public take into account a plurality of (reasonable) doctrines?	Does the feedback represent opinions from different segments of the public?
Understandability	Is the evidence accompanied by inter- pretative notes and metadata?	Is it clear what are the goals (long - and short- term) of the initiator?	Is it simple to understand how the channel works?	Is everyone from the public able to understand the message? (i.e. language, complexity, timing,).	Is the strategy defining the public, its composition, and its segmentation clearly understandable?	Are the content and the representativity of the feedback clearly understandable?
Privacy	Is the evidence completely anonymized?	Is the individual privacy of the initiator's employees guaranteed (to balance with transparency)?	Does the channel protect users' privacy (e:g: no tracking technologies)?	Does the message contain information that could compromise anyone's privacy?	Is citizens' privacy guaranteed in the delivery of the message? (e.g. cookies, digital fingerprinting).	Is the feedback completely anonymized?
	.					

Key messages:

- Passive social listening is incredibly effective;
- But eavesdropping other people's conversations erodes trust;
- Therefore on the long run this approach can start an arms race for privacy vs control (negative impact on effectiveness);
- Active social listening and direct engagement with communities can mitigate this risk.

DIY, hands-on learning is fun

Resources for the curious

The Telegram paper: https://www.jmir.org/2022/2/e34385

The software: https://zenodo.org/record/5534045#.YaiVltDMKUm

A test run on a toy dataset: https://drive.switch.ch/index.php/s/F0AIT3z8wRADu2j

Toy data for DIY enthusiasts: https://drive.switch.ch/index.php/s/arv4qZbLqoALBIm

The PHERCC paper (preprint): https://zenodo.org/record/6559205

Another very cool paper about active social listening:

https://www.researchprotocols.org/2021/11/e33653

SO LONG, AND THANKS FOR ALL THE FISH.

Download this deck here:





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