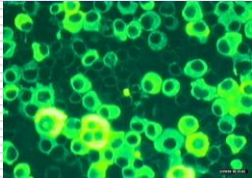


Fake news and Vaccinations

Point of view of an immunologist/curator 40/10

Paris Est January 2020



GC Faure MD, PhD
Immunology Lab



And
CREM

Université Lorraine, Nancy



OKCC/C30

FN&Vs: Overview



Context... March 2019 New policies of social networks and Google

Method: Content curation with Scoop.it

What? kind of information?

Who?

Where? are producers of Fake News and influencers on vaccination topic?

What's new since April 2019?

Vaccinations Science 2017

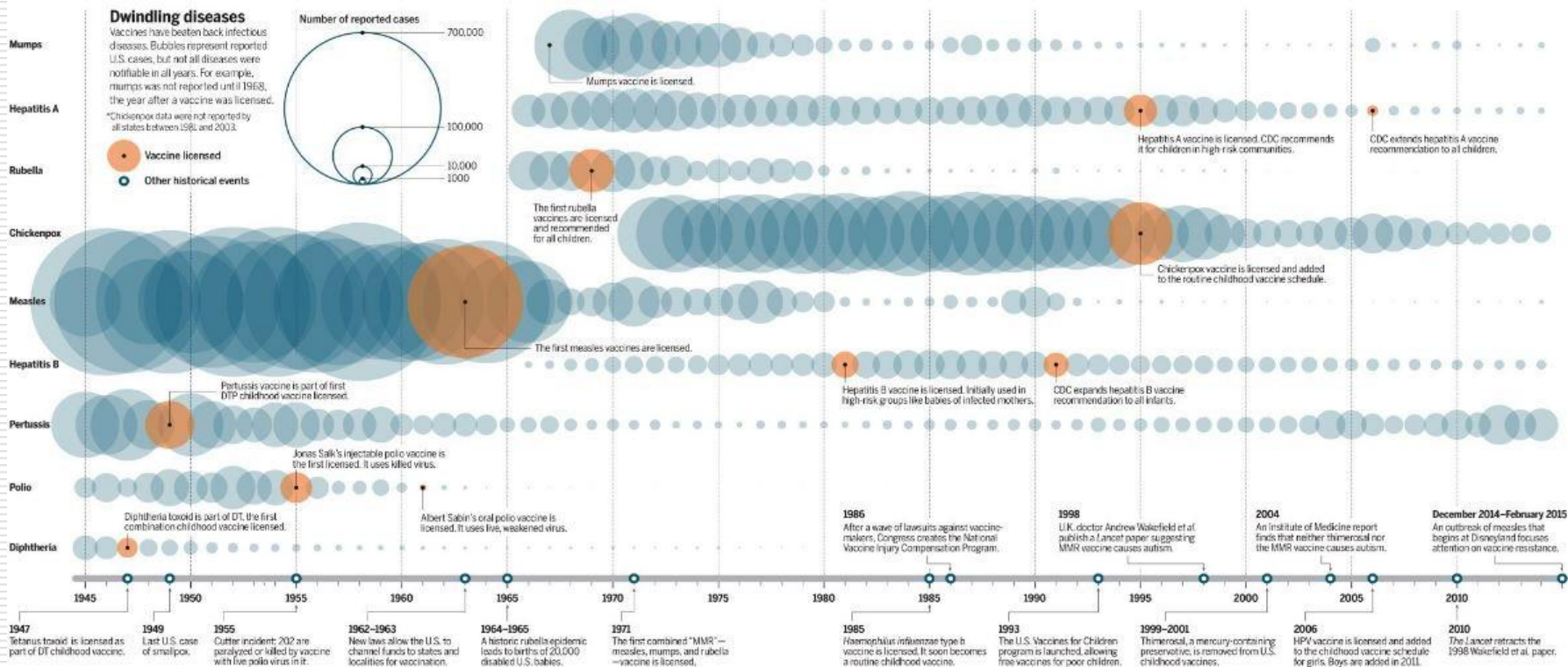
NEWS | VACCINE WARS

FEATURES

THE VACCINE WARS

Debunking myths, owning real risks, and courting doubters

By Meredith Wadman and Jia Yu



LAST WEEK, PUBLIC HEALTH AUTHORITIES in Minnesota asked more than 200 people to quarantine themselves after 12 cases of measles were diagnosed in less than 2 weeks—all of them in unvaccinated children younger than 6 years. Across the ocean, an unvaccinated 17-year-old Portuguese girl died of measles after the virus invaded her lungs, in the midst of an outbreak there that mirrors surges in cases in Germany, Italy, and Romania. In 2015, the most recent year for which data are available, just 72% of U.S. toddlers had received seven key vaccines recommended by the Centers for Disease Control and Prevention (CDC), which together protect against 11 potentially deadly diseases. That is actually an improvement from 2011, when the number was 69%; but it also indicates that much work remains

to be done, particularly in an environment in which vaccine skeptics have been emboldened, not least by the current occupant of the Oval Office.

As once common diseases of childhood fade from public view, it is understandable that parents' attention would shift from the fear of disease to concerns about risks of the vaccines themselves. The articles in this issue debunk myths old and new about these risks, while acknowledging the real, rare vaccine injuries that do occur. The data on these pages make clear the power of vaccines to vanquish disease—an impact that far eclipses their minute risks. Identifying the best ways to convince hesitant parents of this calculus in an age of internet-fed misinformation is an ongoing challenge for researchers. ■

Teaching in Medical Schools

Montpellier

Sclérose en plaques et vaccination contre l'hépatite B

Vaccination et autisme

Vaccination et mort subite du nourrisson

Vaccination, aluminium et myofasciite à macrophages

Mercure, thiomersal et maladies neurologiques



CANADA

McGill Reporter



<http://www.chu-montpellier.fr/fr/vaccination/les-polemiquset-les-fake-newsconcernant-la-vaccination/>

Fake News on the web and vaccinations before 2019

Scientific papers (not many)

PubMed: 19 papers since 2017!

Google Scholar: 1980 results since 2019

Fake News or Weak Science? Visibility and
Characterization of Antivaccine Webpages
Returned by Google in Different Languages and
Countries

<https://www.frontiersin.org/articles/10.3389/fimmu.2018.01215/full>

Methods



Curation with Scoop.it

Crawling engine

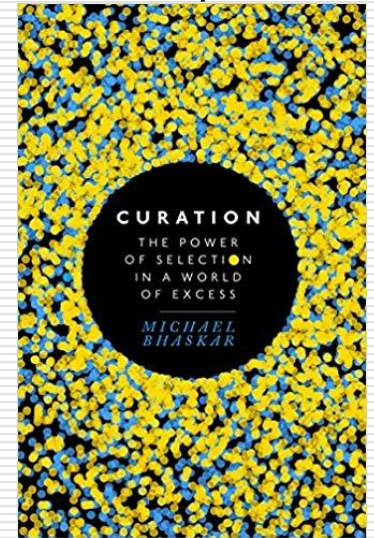
plus specific Google searches about Pinterest, Youtube, Facebook..

Keyword (**vaccine**>fake news)

From april 2019 to now

Material #200 scoops

<https://www.scoop.it/topic/assim-actualites>



Social Networks Policy on Fake News since March 2020

Facebook: Go to CDC.gov

Instagram: Go to WHO.int

On **Twitter**'s iOS and Android apps, as well as its desktop website, for users in the US, **Canada**, UK, **Brazil**, Korea, **Japan**, **Indonesia**, Singapore and Spanish-speaking Latin American countries.



Where? Fake News everywhere!

USA +++

France 10% UK 8%

Italy, Georgia,

Pakistan,

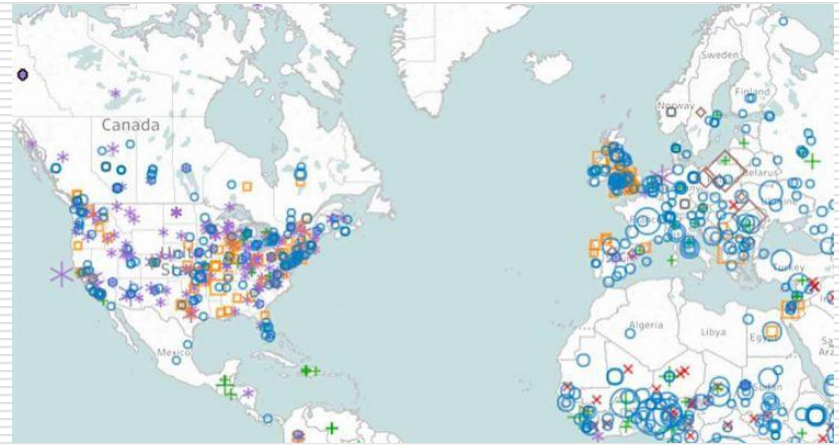
India <https://www.opindia.com/2019/12/best-of-2019-top-10-media-lies/>

Australia, New Zealand

NZ Environment Watch

<https://envirowatchrangitikei.wordpress.com/home-2/>

St Lucia, Samoa



WHO? Anti-vaxxers



Actors in Hollywood? From Jessica Biel to 17 celebs <https://www.rollingstone.com/culture/culture-features/celebrities-anti-vaxxers-jessica-biel-847779/>

Two major sources of funding (up to 54%)

Robert F Kennedy Jr's World Mercury Project (Bigtree)

Larry Cook's Stop Mandatory Vaccinations

+



The Selzes https://www.washingtonpost.com/national/health-science/meet-the-new-york-couple-donating-millions-to-the-anti-vax-movement/2019/06/18/9d791bcc-8e28-11e9-b08e-cfd89bd36d4e_story.html

FN&Vs : Websites



USA...

Stop Mandatory Vaccination

<https://www.facebook.com/StopMandatoryVaccinationNow/>

Naturalnews <https://www.naturalnews.com/Index.html>

Healthnutnews <https://www.healthnutnews.com/>

Infowars <https://www.infowars.com/>

Healthimpactnews <https://healthimpactnews.com/>

Informed Consent Action Network (ICAN)

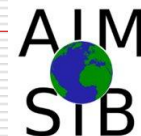
<https://www.icandecide.org/> (Vaxxed the film)

National Vaccine information center

<https://www.nvic.org/>



France:



ASSOCIATION INTERNATIONALE
POUR UNE MÉDECINE SCIENTIFIQUE
INDÉPENDANTE ET BIENVEILLANTE

WHAT ? Fake news: Recent and recurrent claims

Composition of vaccines

From <https://www.cdc.gov/vaccines/pubs/pinkbook/downloads/appendices/B/excipient-table-2.pdf>

human abortion cells, African GreenMonkey kidney cells, deandly pig virus Circovirus, mercury, formaldehyde, monosodium glutamate, aluminum, squalene and genetically modified virus strains. Fetal DNA. Urea (= animal urine)

Diseases

Neurological disorders, Autism

Infertility (Gardasil)

Peanut allergy, Autoimmunity

A few Fake memes



Acting against Fake news

Supranational Organizations:

WHO, EurActiv Network

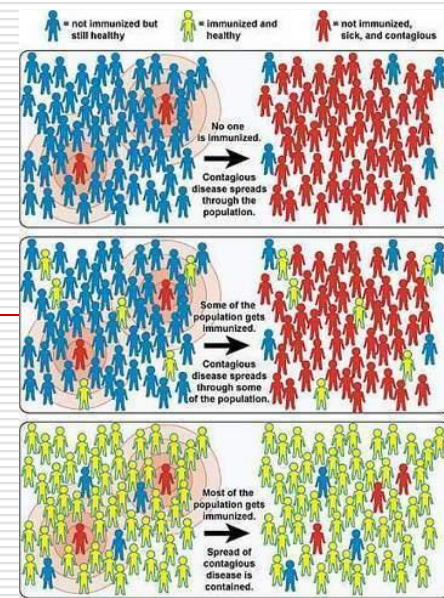
Health authorities: Lancet

LO Gostin et al [VOLUME 20, ISSUE 1](#), PE11-E16, JANUARY 01, 2020 The public health crisis of underimmunisation: a global plan of action

National organizations: CDC, NIH

Media: Le Figaro, NY Times, the Guardian, Daily Mail, The Sun

BBC ...Midwife epidode series!



Some recent published papers

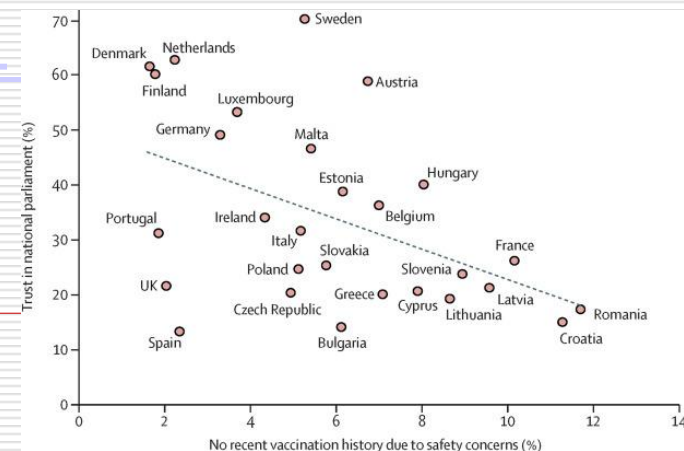
[Health Econ.](#) 2019 Nov; 28(11): 1377–1382. Vaccine hesitancy and (fake) news: Quasi-experimental evidence from Italy

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6851894/>

Lancet Vaccine hesitancy: Lower trust...

[VOLUME 395, ISSUE 1021](#)

32, JANUARY 04, 2020



In France

Wikipedia en France +

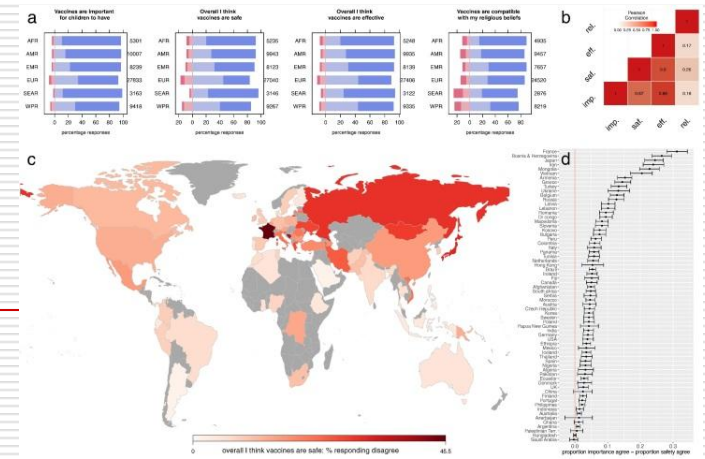
https://fr.wikipedia.org/wiki/Controverse_sur_la_vaccination

EHESP The Conversation
« liaisons dangereuses »

CHU Français: Dr N Dambroise

Vaccination InfoService

<https://vaccination-info-service.fr/>



VACCINATION
INFO SERVICE.FR
Protégeons-nous > Vaccinons-nous

Individuals



UK : Shah R (2019) "Fake news: A threat to curbing vaccine-preventable diseases in the UK", Nuffield Trust guest

comment. <https://www.nuffieldtrust.org.uk/news-item>

Italy in Science : TV Talk Show Burioni

In the context of



US Ohio: MD Nicole Baldwin

Sur TikTok



Most Recently,



Diversion of WHO Global Vaccine Safety Summit

Education of MDs about vaccines

Google? Vitamin A prevents the measles and the HPV vaccine causes infertility...

Google and Twitter approved anti-vaxx ads vs FB, Instagram, Snap and

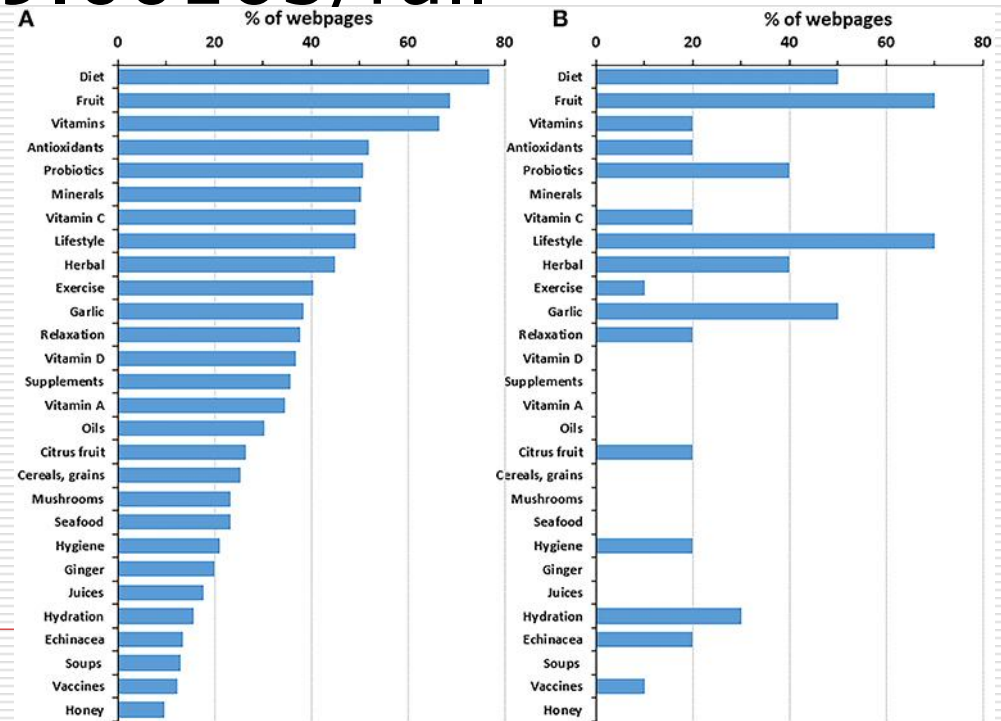
Youtube: <https://www.thedailybeast.com/you-wont-believe-how-easy-it-is-to-buy-anti-vaxx-ads-on-google-and-twitter>

~~Stop Mandatory vaccinations still on **FB**~~

Health Literacy

Frontiers: Boosting immunity

<https://www.frontiersin.org/articles/10.3389/fmed.2019.00165/full>



FN&Vs: Conclusions



Is a difficult subject for information, health professionals and policy makers

Rather Pessimistic?

Fake News are here to stay!

Is scientific and public health valid information efficient?

Violence and threats not only in words?

Digital and Health Literacy a necessity!

"the degree to which individuals have the capacity to obtain, process, and understand basic **health** information and services needed to make appropriate **health** decisions."



Disclaimer

once upon a time...

Europe SCICOM meetings in Nancy
Paris MRES Comité stratégique IST
UHP Nancy 1 Chargé de mission DOC
AUF: ASSIM: maître toile
(<http://www.assim.refer.org>)

OKCC/C30

Curator of

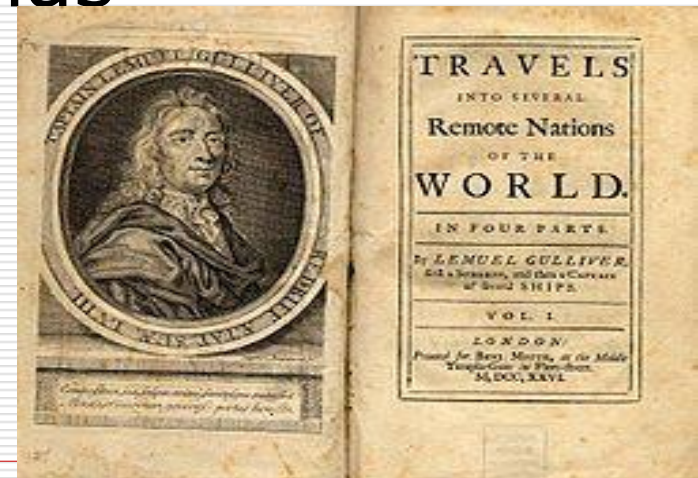
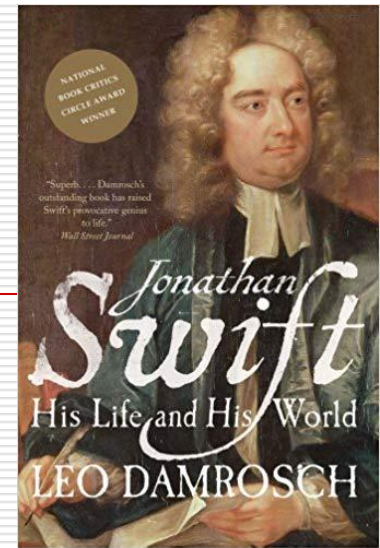
<http://www.scoop.it/u/gilbertcfaure>

No conflict of interest to declare



Jonathan Swift 1710

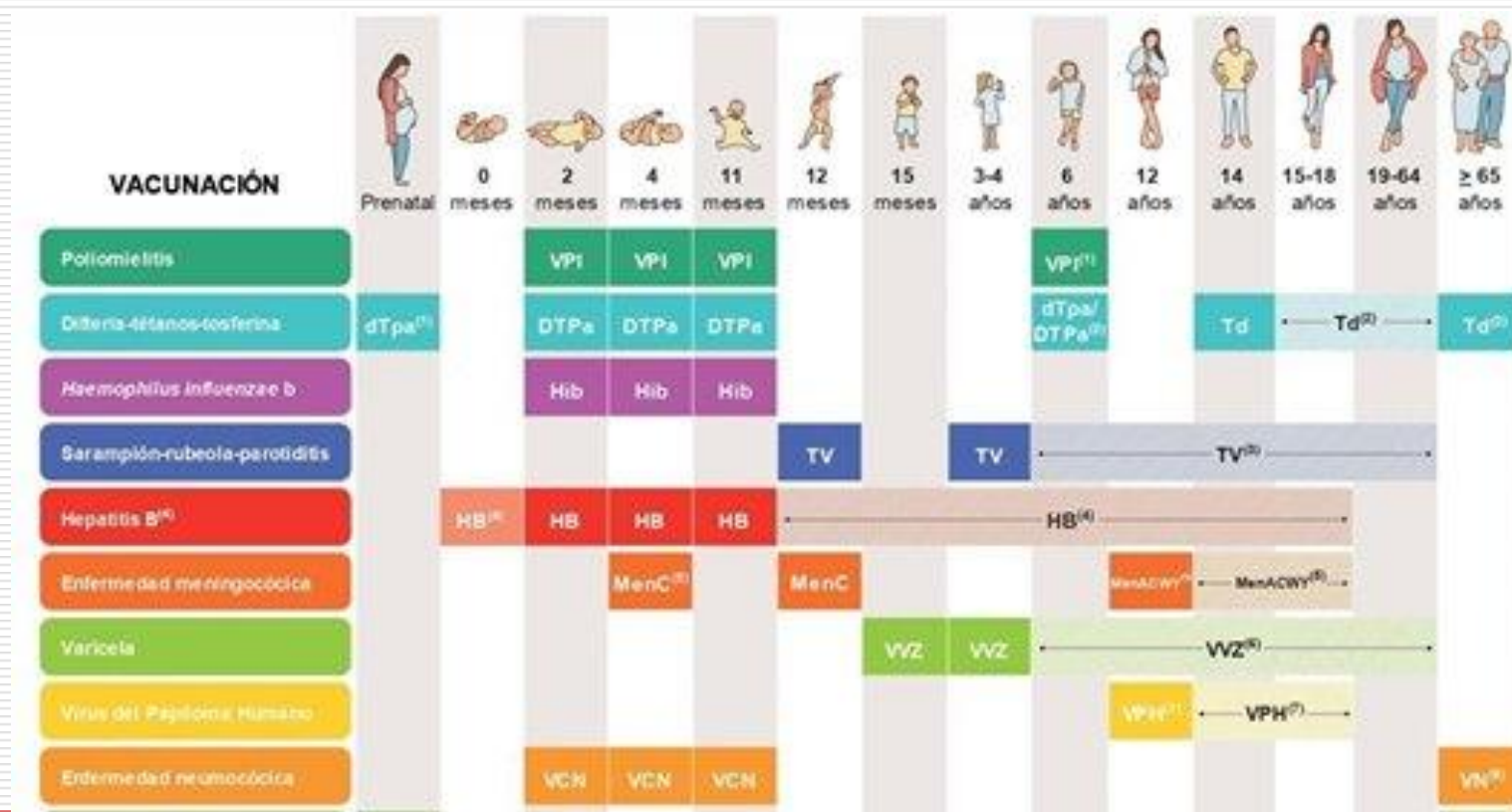
Falsehood flies, and the truth comes limping after it; so that when men come to be undeceiv'd, it is too late; the jest is over, and the tale has had its effect...



<https://www.scoop.it/search?q=anti-vaxx>

Calendrier

AEBM



Words narrative: Violence!

Evil, Sorcery,

Abuse, surgery

Nazi, civil rights

Shill (Lena Sun, WPost)

Death Threats (Nicole Baldwin MD)

Politics Italy

Religion USA/NJ exemptions

<https://www.scoop.it/search?type=post&page=1&limit=24&from=&to=&range=&lang=fr&q=anti-vaxx>