

Medical Product Quality Report – COVID-19 vaccine issues

23 February 2021

Table of Contents

Summary	2
1. Introduction	3
2. Reports of SF COVID-19 vaccine incidents in the lay press	5
3. Reports by international organisations	11
4. Reports from the scientific literature	15
5. Regulatory alerts	17
6. Miscellaneous	18
Annex: MQM Globe general discussions and alerts on COVID-19 vaccines	20

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Summary

COVID-19 vaccines are vital interventions to help end the pandemic. However, with severe issues with equitable global access, falsified, diverted and substandard (especially degraded) vaccines are highly likely to become increasing global public health problems, leading to vulnerable communities thinking that they are protected when they are not. In order to facilitate our understanding of such reports and to inform interventions, we summarise reports in the public domain relevant to substandard and falsified (SF) COVID-19 vaccines since the start of the pandemic. The report will be updated monthly and aims to aid national medicine regulators, international organizations, vaccine manufacturers and distributors and civil society by summarising the current public domain literature, to inform action and policy.

Between 12th March 2020 and 10th February 2021 we found, excluding duplicates, 45 reports of apparently SF COVID-19 vaccines from 14 countries. When the vaccines were stated as unauthorised copies of approved vaccines, they were copies of products from Pfizer/BioNTech (5), AstraZeneca (3), Moderna (3), Sinovac (3), Sinopharm (3) and were reported from 5 countries (Brazil, China, Mexico, Philippines, USA) and online. To 10th February 2021 we identified only one clear public domain report of diverted COVID-19 vaccines, but we fear that these will become an important issue.

Inequitable access is highly likely to fuel an increase in such incidents, negating the global good on health and economy of these remarkable vaccines. We urgently need joined-up interventions to reduce the risk of SF COVID-19 vaccines on global public health, through significant enhancements in global capacity for their prevention, detection and response.

1. Introduction

It is hoped that the deployment of COVID-19 vaccines, combined with other public health interventions, will reduce the incidence of COVID-19 infections and help end the pandemic. The storage and distribution of these vaccines is a major logistical challenge. Additional, but so far neglected, issues are substandard and falsified (SF) COVID-19 vaccines, a high risk globally, especially in low and middle income countries.

There have been numerous reports over the last two decades of vaccine falsification (aka counterfeiting), for example, rabies, cholera, meningitis, yellow fever and hepatitis B vaccines and degradation due to storage and transport at inappropriate temperatures. These risk impairing the effectiveness of vaccination programs, increasing mortality, morbidity and economic harm, engendering further viral mutants, confuse and alarm communities, and damage public confidence in immunization programs, reducing vaccine uptake.

Major current risks for the implementation of COVID-19 vaccines include falsification and diversion fuelled by impaired access and the vital need for them globally, especially in the face of inequitable distribution. Vaccine degradation (included in the term substandard by WHO¹) is also a major risk without robust regulated supply chains.

Here, we summarise reports in the public domain, relevant to SF COVID-19 vaccines, since the start of the pandemic. We describe SF vaccine incident reports (see Table 1, Figure 1), warnings issued by international organisations and through the scientific literature and regulatory alerts. The incidents highlighted in this report are not exhaustive and we are continuing to collate more reports. We also include reports of theft and diversion of COVID-19 vaccines from legitimate supply chains. It is highly likely that diverted vaccines will not be stored appropriately and their use is likely to result in people being unprotected when they think they are.

This vaccine -orientated report is complementary to the larger report we issue monthly on issues with SF medical products for COVID-19 (see [on the Infectious Diseases Data Observatory webpage](#))².

This report was prepared by Kerlijn Van Assche, Céline Caillet and Paul Newton of the Medicine Quality Research Group, that is part of the Infectious Diseases Data

¹ World Health Organisation. Appendix 3 WHO member state mechanism on substandard/spurious/falsely-labelled/falsified/counterfeit (SSFFC) medical products working definitions. In: Seventieth World Health Assembly. ; 2017. Accessed August 14, 2020. https://www.who.int/medicines/regulation/ssffc/A70_23-en1.pdf?ua=1

² Infectious Diseases Data Observatory. Medical Product Quality Reports. Published 2020. Accessed February 15, 2021. <https://www.iddo.org/mq/research/medical-product-quality-reports>.

Observatory (IDDO) and the MORU Tropical Health Network, Centre for Tropical Medicine & Global Health, Nuffield Department of Medicine, University of Oxford, UK.

The Medicine Quality Monitoring Globe system³ was developed by Clark Freifeld (HealthMap, Boston Children’s Hospital, North Eastern University) and Andrew Payne (IDDO), Alberto Olliaro (IDDO) and Gareth Blower (ex-IDDO) with curation of the English reports by Konnie Bellingham, Inthaphavanh Kitignavong and Vayouly Vidhamaly, linked to the Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Microbiology Laboratory, Mahosot Hospital, Vientiane, Lao PDR.

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Any remarks or additions to content are greatly appreciated (please write to medicinequality@iddo.org).

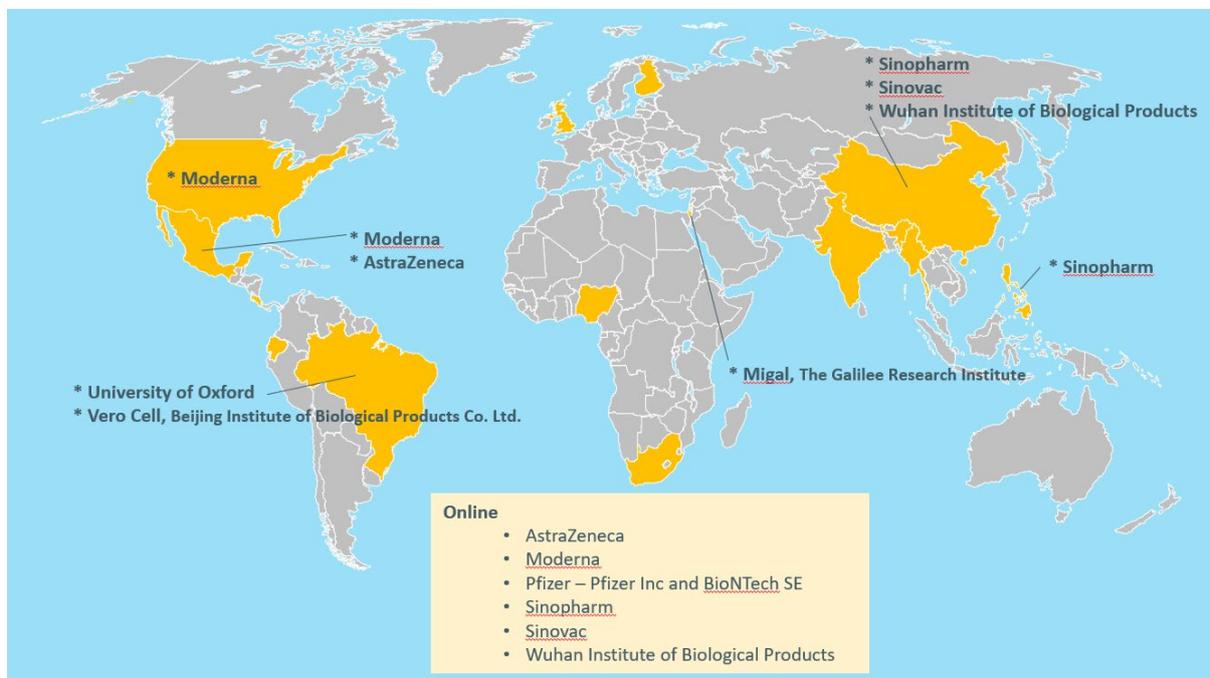


Figure 1. Countries with public reports on substandard or falsified COVID-19 vaccines. Countries with reports are indicated in orange. If a public report mentions a product name or a company, this detail is indicated on the map. Source of the information - see table 1.

³ Infectious Diseases Data Observatory. Medicine Quality Monitoring Globe . 2021. Accessed February 22, 2021. <https://www.iddo.org/medicine-quality-monitoring-globe>

2. Reports of SF COVID-19 vaccine incidents in the lay press

The reports presented here were extracted from the Medicines Quality Monitoring Globe ([the MQM Globe is accessible on the IDDO website](#)⁴), a system that scrapes online newspapers (referenced in Google News) for early warnings of SF medical products. Any article describing recalls, seizures, diversions, thefts, scams, degradation, adulteration or contamination of COVID-19 vaccines, cases of patients suffering adverse effects/lack of efficacy after taking a COVID-19 vaccine suspected to be substandard or falsified will be included.

The reports cited in Table 1 are all alerts about SF COVID-19 vaccines that were present in the Medicine Quality Monitoring Globe (MQM Globe) on the 10th of February 2021⁵. This contains publicly available information on the quality of medical products from non-peer-reviewed lay literature ([Please consult the IDDO website for full methodology](#)). We only included data that were published in English. For articles in French, Spanish, Mandarin, and Vietnamese; please consult the online MQM Globe.

We found, excluding duplicates, 45 reports of incidents with COVID-19 vaccines in 14 different countries or online. Forty cases were of apparently falsified vaccines. With the information provided in the articles it is not always possible to make the distinction as to whether the vaccine offered is a tangible product or a scam, where there is no physical product available. Especially for online offers, the distinction is hard to make. Investigation or attempts to buy the vaccines are needed to make the distinction. Unauthorised copies of approved COVID-19 vaccines of the Pfizer/BioNTech (5 reports), AstraZeneca (3 reports), Moderna (3 reports), Sinovac (3 reports) and Sinopharm (3 reports) vaccines were reported in five countries (Brazil, China, Mexico, Philippines, USA) and online. Two reports described degraded Moderna vaccines and another issues with the Moderna vaccine of uncertain aetiology. We are aware of only one unambiguous report so far in the public domain on COVID-19 vaccine theft, on the 3th of February 2021 (see Table 1, publication date 4 Feb 2021, USA). In addition, there was a report (see Table 1, publication date 22 Jan 2021, USA) of a physician who was charged with theft of COVID-19 vaccine doses in the USA. The intention of the physician who vaccinated people in high risk groups before the vaccine expired has been controversial.

We report the information as it is stated in the identified articles and can thus be biased towards the authors perspective. It does not necessarily reflect our vision or judgment on the issue. Also, this information usually will not have scientific confirmation. Therefore, the information needs to be interpreted with the greatest caution. We regard the reports as early warnings of potential problems.

⁴Infectious Diseases Data Observatory. Medicine Quality Monitoring Globe. Web Page. Published 2020. Accessed October 16, 2020. <https://www.iddo.org/medicine-quality-monitoring-globe>

⁵ Infectious Diseases Data Observatory. Medicine Quality Monitoring Globe. Web Page. Published 2020. Accessed February 12, 2021. <https://www.iddo.org/medicine-quality-monitoring-globe>

In addition to the incidents reported in Table 1 on SF COVID-19 vaccines, several articles were published on the stolen Pfizer/BioNTech COVID-19 vaccine data in December 2020.

- Strubbs J. **Hackers steal Pfizer/BioNTech COVID-19 vaccine data in Europe, companies say.** *Reuters - Technology news.* <https://www.reuters.com/article/uk-ema-cyber/hackers-steal-pfizer-biontech-covid-19-vaccine-data-in-europe-companies-say-idUKKBN28J1VF>. Published December 9, 2020. Accessed February 15, 2021.
- Davis J. **Hackers Leak COVID-19 Vaccine Data Stolen During EU Regulator Breach.** *Health IT Security.* <https://healthitsecurity.com/news/hackers-leak-covid-19-vaccine-data-stolen-during-eu-regulator-breach>. Published January 13, 2021. Accessed February 15, 2021.
- Davis J. **COVID-19 Vaccine Data Manipulated Before Leak to Impair Public Trust.** *Health IT security.* <https://healthitsecurity.com/news/covid-19-vaccine-data-manipulated-before-leak-to-impair-public-trust>. Published January 19, 2021. Accessed February 15, 2021.

Table 1. Reports of substandard or falsified or diverted vaccines available in the Medicine Quality Monitoring Globe, in chronological order.

If the reports mention a product name or manufacturer they are in bold. Reports dated from 12 March 2020 until 10 February 2021. We have tried to identify primary reports – there are many other reports describing these issues but we have not included them unless they provide additional relevant information.

Publication date	Location	Product/ organization	Title	Url
2020				
12 Mar 2020	India	-	Maharashtra: Three held for administering fake coronavirus vaccines	https://www.deccanherald.com/national/west/maharashtra-three-held-for-administering-fake-coronavirus-vaccines-812962.html
23 Mar 2020	USA	-	US Court Blocks Website Selling Fake #COVID19 Vaccine	https://www.infosecurity-magazine.com/news/us-court-blocks-fake-covid-19/
30 Mar 2020	USA	-	Man busted for selling fake coronavirus vaccine in Washington	https://mynorthwest.com/1847021/coronavirus-vaccine-scam-washington/
1 May 2020	Online	-	Blood of coronavirus survivors sold on the dark web as 'makeshift vaccine'	https://www.thescottishsun.co.uk/news/5550884/coronavirus-vaccine-blood-dark-web/
23 May 2020	USA	-	US FDA issues warning letters to two groups for selling fake COVID-19 vaccines	https://www.republicworld.com/world-news/us-news/us-fda-issues-warning-to-two-groups-for-selling-fake-covid-19-vaccines.html
27 May 2020	Israel	Migal, The Galilee Research Institute	Fake Israeli coronavirus vaccine being sold in South America	https://www.ipost.com/health-science/fake-coronavirus-vaccine-with-hebrew-label-being-sold-in-south-america-629416
13 July 2020	USA	-	US attorney shuts down Louisville man's website advertising fake coronavirus vaccine	https://www.courier-journal.com/story/news/local/2020/07/13/louisville-man-advertised-fake-coronavirus-vaccine/5431942002/
13 Aug 2020	China	* Sinovac * Wuhan Inst. of Biological Products	Fake pre-orders for coronavirus vaccines found in China	https://www.taiwannews.com.tw/en/news/3987217
21 Aug 2020	China	* Sinopharm * Sinovac	Authorities warn against illegal COVID-19 vaccines and medication sold online	https://www.abc.net.au/news/2020-08-22/border-force-warn-against-importing-coronavirus-vaccines/12581996
11 Sept 2020	Online	-	Darknet Dealers are Selling COVID-19 Test Kits for Thousands of Dollars	https://www.vice.com/en_us/article/akzpv5/covid-19-rapid-test-kits-for-sale-dark-web
26 Sept 2020	India	-	Fake COVID-19 Vaccine Manufacturing Unit Busted In Bargarh	https://odishatv.in/odisha-news/fake-covid-19-vaccine-manufacturing-unit-busted-in-bargarh-478473
2 Oct 2020	Myanmar	-	Myanmar Health Chiefs Warn Against Fake COVID-19 Vaccines	https://www.irrawaddy.com/specials/myanmar-covid-19/myanmar-health-chiefs-warn-fake-covid-19-vaccines.html
13 Oct 2020	Brazil	University of Oxford	Sales of fake Covid-19 vaccine in Brazil reported	https://www.plenglish.com/index.php?o=rn&id=60698&SEO=sales-of-fake-covid-19-vaccine-in-brazil-reported
30 Oct 2020	Online	-	FDA Warns Of Bogus Coronavirus Vaccines And Treatments Being Sold Online	https://pittsburgh.cbslocal.com/2020/10/30/fda-warns-of-bogus-coronavirus-vaccines-and-treatments-being-sold-online/
11 Nov 2020	Online	-	Dark Web Has Become a Market place for 'Vaccines' and Other Pandemic Scams	https://www.bloomberg.com/news/articles/2020-11-11/dark-web-has-become-a-marketplace-for-vaccines-and-other-pandemic-scams?sref=Pqfp0AgC

Publication date	Location	Product/ organization	Title	Url
13 Nov 2020	Online	*Sinopharm *Sinovac	COVID-19 vaccines selling for \$24k on black market	https://www.noosanews.com.au/news/covid-19-vaccines-selling-for-24k-on-black-market/4139565/
4 Dec 2020	Online	Pfizer/BioNTech	Darknet Drug Dealers Are Now Selling 'Pfizer COVID Vaccines'	https://www.vice.com/en/article/akdkkg/darknet-drug-dealers-are-now-selling-pfizer-covid-vaccines
11 Dec 2020	Online	Pfizer/BioNTech	Covid vaccine: Scammers are flogging fake coronavirus jabs on the dark web for £230	https://www.mirror.co.uk/tech/covid-vaccine-scammers-flogging-fake-23151276
21 Dec 2020	Philippines	Sinopharm	Locsin says reported COVID-19 vaccine in Binondo could be fake, just 'dextrose'	https://www.gmanetwork.com/news/news/nation/768836/locsin-says-reported-covid-19-vaccine-in-binondo-could-be-fake-just-dextrose/story/
23 Dec 2020	Brazil	Vero Cell, Beijing Institute of Biological Products Co. Ltd.	Creative Professional Says He Saw Street Vendor Selling a False Vaccine in Rio for \$R50	https://www1.folha.uol.com.br/internacional/en/scienceandhealth/2020/12/street-vendors-sell-fake-vaccine-against-covid-19-for-r-50-in-rio.shtml
28 Dec 2020	South Africa	-	Interpol notes fake Covid-19 vaccine bust in SA	https://citizen.co.za/news/south-africa/crime/2413293/interpol-notes-fake-covid-19-vaccine-bust-in-sa/
2021				
1 Jan 2021	USA	Moderna	Pharmacist arrested, accused of destroying more than 500 Moderna Vaccine Doses	https://www.npr.org/2020/12/31/952536531/pharmacist-arrested-accused-of-destroying-more-than-500-moderna-vaccine-doses?t=1614099235033
5 Jan 2021	Online	* Wuhan Institute of Science * Moderna Inc vaccines * Pfizer/BioNTech * AstraZeneca	A COVID-19 shot for \$150? Online scams surge as slow vaccine rollout frustrates	https://in.reuters.com/article/us-health-coronavirus-vaccine-scams/a-covid-19-shot-for-150-online-scams-surge-as-slow-vaccine-rollout-frustrates-idINKBN29A19Z
7 Jan 2021	UK	-	Elderly woman, 92, tricked into paying £160 to get fake Covid jab in her own home	https://www.dailystar.co.uk/news/elderly-woman-92-tricked-paying-23282075
13 Jan 2021	Online	* Moderna * Pfizer/BioNTech	The dark net is being flooded with fraudulent COVID-19 vaccines	https://www.crikey.com.au/2021/01/14/dark-web-covid-19-vaccine-black-market/

Publication date	Location	Product/organization	Title	Url
14 Jan 2021	Online, Mexico	Pfizer/BioNTech	Organized crime in Mexico selling fake Covid-19 vaccines	https://www.laprensalatina.com/organized-crime-in-mexico-selling-fake-covid-19-vaccines/ Original message: https://www.gob.mx/cms/uploads/attachment/file/604366/Comunicado_Vacuna_Covid_050121.pdf
15 Jan 2021	UK	-	Shameless fraudster tries to sell 61-year-old woman fake Covid-19 vaccine for £170 in Worksop area	https://www.worksopguardian.co.uk/news/crime/shameless-fraudster-tries-sell-61-year-old-woman-fake-covid-19-vaccine-ps170-worksop-area-3102846
15 Jan 2021	Nigeria	-	Fake COVID-19 vaccines in circulation, NAFDAC warns	https://www.vanguardngr.com/2021/01/updated-fake-covid-19-vaccines-in-circulation-nafdac-warns/
18 Jan 2021	Costa Rica	-	Fake Blackmarket COVID-19 Vaccines in Costa Rica	https://news.co.cr/fake-blackmarket-covid-19-vaccines-in-costa-rica/82725/
18 Jan 2021	USA	Moderna	Coronavirus: California calls for pause, investigation after allergic reactions to Moderna vaccine batch	https://www.mercurynews.com/2021/01/18/coronavirus-california-calls-for-pause-investigation-after-allergic-reactions-to-moderna-vaccine-batch
20 Jan 2021	USA	Moderna	THOUSANDS of Moderna Covid vaccine doses spoil in Maine & Michigan due to temperature control issues	https://www.rt.com/usa/513082-michigan-maine-moderna-vaccine-ruined/
21 Jan 2021	Online, USA	Coronavac, Sinovac	Leading Indicators Foreshadow COVID-19 Vaccine Scams	https://securityboulevard.com/2021/01/leading-indicators-foreshadow-covid-19-vaccine-scams/
21 Jan 2021	Online	-	Sale of Fake COVID-19 Vaccines Grew 400% on the Dark Web	https://www.entrepreneur.com/article/363880
22 Jan 2021	USA	-	Seller of fake vaccine arrested in Seattle	https://www.myclallamcounty.com/2021/01/22/seller-of-fake-vaccine-arrested-in-seattle/
22 Jan 2021	USA	Moderna	Texas physician charged with theft of COVID-19 vaccine	https://www.beckershospitalreview.com/legal-regulatory-issues/texas-physician-charged-with-theft-of-covid-19-vaccine.html Articles bringing other elements to the event were published in February: <ul style="list-style-type: none"> Doctors says he was wrongly fired for giving expiring Covid vaccine to his wife : https://www.independent.co.uk/news/world/americas/covid-vaccine-expiring-houston-texas-b1801122.html Texas doctor fired for giving away expiring vaccines: https://www.webmd.com/vaccines/covid-19-vaccine/news/20210214/texas-doctor-fired-for-giving-expiring-vaccines
25 Jan 2021	Online, Mexico	Moderna	Mexico Warns Citizens of Fake COVID-19 Vaccines	https://www.occrp.org/en/27-ccwatch/cc-watch-briefs/13715-mexico-warns-citizens-of-fake-covid-19-vaccines Original message: https://www.gob.mx/cms/uploads/attachment/file/608294/Comunicado_Vacuna_Covid_Moderna_220121.pdf
26 Jan 2021	UK	-	Sick fraudsters inject Scots with fake Covid vaccine for cash in cruel scam	https://www.dailyrecord.co.uk/news/scottish-news/sick-fraudsters-inject-scots-fake-23389274

Publication date	Location	Product/ organization	Title	Url
27 Jan 2021	Ecuador	-	Ecuador Health Centre 'Gives Fake Covid Jab to 70,000 People'	https://www.euoweeklynews.com/2021/01/27/ecuador-health-centre-gave-fake-covid-jab-to-70000-people/
29 Jan 2021	Online	-	Covid-19 medicines, PPE, tests and vaccines are being sold on the dark web	https://www.dailymail.co.uk/sciencetech/article-9198535/Covid-19-medicines-PPE-tests-vaccines-sold-dark-web.html
31 Jan 2021	Finland	-	Woman suspected of peddling fake vaccine in southeast Finland	https://yle.fi/uutiset/osasto/news/woman_suspected_of_peddling_fake_vaccine_in_southeast_finland/11765320
1 Jan 2021	China	-	80 held in China over fake Covid-19 vaccines	https://www.scmp.com/news/china/politics/article/3120083/chinese-police-detain-80-selling-fake-covid-19-vaccines
4 Jan 2021	Mexico	AstraZeneca	Cofepris alerts about the illicit sale of the AstraZeneca vaccine	https://www.explica.co/cofepris-alerts-about-the-illicit-sale-of-the-astrazeneca-vaccine/ Original message: https://www.gob.mx/cms/uploads/attachment/file/613986/COFEPRIS03022021.pdf
4 Feb 2021	USA	-	COVID-19 vaccine doses stolen in Florida after car keys left in ignition	https://www.clickorlando.com/news/local/2021/02/04/video-shows-person-of-interest-in-stolen-covid-19-vaccine-investigation-police-say/
8 Feb 2021	Philippines	-	Avoid COVID-19 vaccines from black market, doctors warn	https://newsinfo.inquirer.net/1393684/avoid-vaccines-from-black-market-doctors-warn
10 Feb 2021	China	-	Over 58,000 Fake COVID-19 Vaccine Doses Busted in China, 600 Doses Sent Overseas	https://www.urdupoint.com/en/world/over-58000-fake-covid-19-vaccine-doses-buste-1164592.html

3. Reports by international organisations

March 2020

- Interpol. **COVID-19 pandemic: guidelines for Law enforcement. Guidelines.** 2020 March 26.

https://www.interpol.int/content/download/15014/file/COVID19_LE_Guidelines_PUBLIC_26mar2020.pdf

Extract. *“The coronavirus outbreak that began in late 2019 (COVID-19) has evolved so rapidly and globally that it has been qualified as a Public Health Emergency of International Concern and a pandemic by the World Health Organization (WHO). The rapid spread of the disease worldwide, and uncertainties as to its evolution, demand a global response in which law enforcement services play a crucial role in contributing to the effort to control the disease, promoting safer communities, and fighting criminals who see the outbreak as an opportunity to increase or diversify their activities.”* [...] **“3.2.2 FAKE AND COUNTERFEIT MEDICAL PRODUCTS** *The COVID-19 pandemic has offered an opportunity for fast cash, as predatory criminals take advantage of the high market demand for personal protection and hygiene products. The results of Operation Pangea, conducted by INTERPOL with enforcement partners in March 2020, have shown an increase in fake or counterfeit medical items available on the market, including: Disposable surgical masks, Hand sanitizers, Antiviral and antimalarial medication, Vaccines, COVID-19 test kits. Recommendations: (*) Law enforcement agencies should pay particular attention to the above list of fake or counterfeit items. (*) Inform the general public about false or misleading online advertisements related to these products. (*) National reporting hotlines may identify such scams at an early stage.”*

- World Health Organisation. **Medical Product Alert N°3/2020: Falsified medical products, including in vitro diagnostics, that claim to prevent, detect, treat or cure COVID-19.** 2020 March 31. <https://www.who.int/news-room/detail/31-03-2020-medical-product-alert-n-3-2020>

Extract. *“This Medical Product Alert warns consumers, healthcare professionals, and health authorities against a growing number of falsified medical products that claim to prevent, detect, treat or cure COVID-19. The Coronavirus disease (COVID-19) pandemic (caused by the virus SARS-CoV-2) has increased demand for medicines, vaccines, diagnostics and reagents, all related to COVID-19, creating an opportunity for ill-intended persons to distribute falsified medical products. Due diligence is required from all actors in the procurement, use and administration of medical products, in particular those affected by the current crisis of, or related to, COVID-19. 1. Falsified in vitro diagnostics and laboratory reagents, 2. Falsified medicines and vaccines.”*

April 2020

- Europol. **Viral marketing - counterfeits, substandard goods and intellectual property crime in the COVID-19 pandemic. Report.** 2020 April 17.

<https://www.europol.europa.eu/publications-documents/viral-marketing-counterfeits-substandard-goods-and-intellectual-property-crime-in-covid-19-pandemic>

Extract. *“Particular attention should be paid to developments and criminal innovation if a genuine vaccine for COVID-19 is developed as this will likely prompt a wave of offers for counterfeit vaccines. However, the development of a vaccine will also likely result in an immediate drop in demand for counterfeit pharmaceutical and healthcare products. Criminals involved in the trade of counterfeit products prior to the outbreak of the COVID-19 pandemic will turn to other commodities to counterfeit and distribute.”*

- Europol. **Beyond the pandemic - how COVID-19 will shape the serious and organised crime landscape in the EU.** Report. 2020 April 30.

<https://www.europol.europa.eu/publications-documents/beyond-pandemic-how-covid-19-will-shape-serious-and-organised-crime-landscape-in-eu>

Extract. *“Efforts to develop a vaccine against COVID-19 are ongoing around the world. Scammers are already offering versions of such a vaccine online. However, once the development of a genuine vaccine has been announced, it is expected that counterfeiters and fraudsters will invest heavily in offering ineffective counterfeits of this vaccine especially online via different platforms and on social media.”*

May 2020

- Interpol. **COVID-19: the global threat of fake medicines.** News release. 2020

May. https://www.interpol.int/en/content/download/15305/file/20COM0356%20-%20IGGH_COVID-19%20threats%20to%20medicines_2020-05_EN.pdf

Extract. *“Since the outbreak of the COVID-19 pandemic, the threat posed by fake medicines and medical products has increased dramatically. Organized crime groups take advantage of the high market demand for medicines, personal protection and hygiene products and make lucrative profits from the sale of counterfeit items.”[...] “When life-saving products or a vaccine become available, demand will soar, resulting in a parallel increase in the theft and counterfeiting of these medicines.”*

July 2020

- United Nations Office on Drugs and Crime. **COVID-19-related Trafficking of Medical Products as a Threat to Public Health.** Research Brief. 2020 July 6.

https://www.unodc.org/documents/data-and-analysis/covid/COVID-19_research_brief_trafficking_medical_products.pdf

Extract. *« Demand-led supply during COVID-19 and the future criminal threat involving vaccines. The demand-supply gap in COVID-19-related products that naturally arose in the early containment phase of the pandemic is gradually being reduced for some products. Producers and suppliers of non-pharmaceutical medical products, including medical grade face masks and surgical gowns, are responding more rapidly by increasing manufacturing capacity thereby reducing opportunities for scams and trafficking in substandard and falsified products. Since the production of such products does not require highly technical infrastructure or sophisticated know-how, the supply chain can be quickly adapted to larger demand. However, when it comes to pharmaceutical medicines to prevent and treat the virus, no such products have yet been found, and building a supply chain to satisfy global demand will require a much longer time scale. This time gap, in the absence of a scientific solution, is an opportunity for criminal groups to sell substandard and falsified medical products. For legitimate vaccine products, the global manufacturing capacity is limited by many technical and regulatory factors as well as the fact that there are only a relatively small number of such manufacturers in existence, and they may not readily cope with rapid change. It is to be expected that criminal actors will seize new opportunities to market substandard and falsified vaccines as soon as a legitimate vaccine candidate is announced and before the genuine product can be legitimately produced and supplied. Again, as demand is likely to be greater than the ability to supply legitimate vaccines, the illicit market space will continue to expand whenever there are anecdotal reports of unproven remedies. Some illegal activities surrounding falsified vaccines have already emerged, even though a vaccine has not yet been discovered. A website advertising a fraudulent coronavirus vaccine was detected in the United States of America. The US Department of Justice has subsequently issued a public warning against criminals seeking to exploit the state of emergency and uncertainty surrounding COVID-19 by advertising illegitimate vaccines. »*

- United Nations Office on Drugs and Crime. **The impact of COVID-19 on organized crime. Research Brief.** 2020 July 13.

https://www.unodc.org/documents/data-and-analysis/covid/RB_COVID_organized_crime_july13_web.pdf

Extract. *“Depending on the evolution of the pandemic, the market for prevention products – vaccines in particular – could be the next area to face high demand and low supply, making it vulnerable to organized crime.”*

August 2020

- Interpol. **COVID-19 Cybercrime Analysis Report. Report.** 2020 August, viewed 16 September 2020. Available from <https://www.interpol.int/en/News-and-Events/News/2020/INTERPOL-report-shows-alarming-rate-of-cyberattacks-during-COVID-19>

Extract. *“According to information provided by member countries and private partners, the top COVID-19 phishing themes include: X Emails from national or global health authorities; X Government orders and financial support initiatives; X Fake payment requests and money reimbursements; X Offers of vaccine and medical supplies; X COVID-19 tracking apps for mobile phones; X Investments and stock offers; X COVID-19 related charity and donation requests.”*

October 2020

- UNODC. **Good Practices Compendium on Combating Corruption in the Response to COVID-19.** 2020. Accessed November 20, 2020.

https://www.unodc.org/pdf/corruption/G20_Compndium_COVID-19_FINAL.pdf

Extract. *« The number of G20 countries that identified certain corruption risks emanating from the COVID-19 crisis. Nine countries indicated risks pertaining to cyberfraud which include the utilization of new Information and Communication Technologies and cyber-scams. 13 countries reported increased corruption vulnerabilities in the exploitation of stimulus packages including dedicated employment furlough schemes and other economic aid. 15 countries identified heightened health-related fraud which includes risks emanating from counterfeit medicines, overpriced medical equipment, health procurement collusion, among others. It is worth noting that these risks were also identical to the new and emerging risks identified by G20 countries. »* [...] *“The United Kingdom noted the rapid emergence of multiple examples of COVID19 fraud which sought to exploit the immediate vulnerabilities and demand across society; affected sectors included medical supplies (personal protective equipment (PPE) or fake vaccines), shortages of certain goods and services and in the provision of financial services (personal loans, stimulus relief funds). It was also noted that fraud was increasingly enabled and perpetrated using digital technology; the use of digital platforms - phishing, emails and online interfaces, among others.”* [...] *“Spain: The G20 should be increasingly used to share best practices and experiences. The exchange of operational information would facilitate the early detection of corruption instances linked to the COVID-19 crisis and future pandemics. This will be especially relevant once COVID-19 vaccines become available in order to avoid the proliferation of counterfeit vaccines and/or the sale and trafficking of vaccines through illicit channels.”* [...] *“Turkey: G20 countries should increase and accelerate international cooperation in emergency contexts. Joint measures should be taken to prevent the production and distribution of counterfeit drugs concerning the COVID-19 vaccine and related therapeutics.”*

November 2020

- Europol. **How COVID-19-Related Crime Infected Europe during 2020.;** 2020. Accessed December 8, 2020. <https://www.europol.europa.eu/publications-documents/how-covid-19-related-crime-infected-europe-during-2020>

Extract. *“The (online and offline) distribution of counterfeit and substandard personal protective equipment, pharmaceutical and sanitary products, including fake ‘corona home test kits’ and*

alleged vaccines preventing COVID-19 infection, remains a consistent pandemic-related criminal activity.”

- Interpol. **COVID-19 Pandemic Protecting Police and Communities: Guidelines for Law Enforcement. Second Edition.** 2020. Accessed December 14, 2020. <https://www.interpol.int/en/News-and-Events/News/2020/COVID-19-crime-INTERPOL-issues-new-guidelines-for-law-enforcement>

Extract. « Criminal targeting of legitimate vaccines. In addition, as legitimate vaccines move closer to delivery, the targeting of storage facilities and distribution networks by criminal networks can also be expected, and the updated guidelines highlight the need for secure storage and delivery of supplies. “High demand combined with a limited supply will make COVID-19 vaccines the equivalent of liquid gold to organized crime networks as soon as one is available.”(Jürgen Stock, INTERPOL Secretary General). “This is why it is essential for action to be taken now, to both protect the legitimate supply chain for when the vaccine is ready, and to prevent the production and distribution of fake COVID-19 vaccines. “As the global COVID-19 situation continues to evolve, so must the law enforcement response and these updated guidelines provide a useful reference document for frontline officers to protect themselves and the communities they serve,” concluded Secretary General Stock. »

December 2020

- Interpol. **INTERPOL warns of organized crime threat to COVID-19 vaccines.** News. Published December 2, 2020. Accessed December 8, 2020. <https://www.interpol.int/News-and-Events/News/2020/INTERPOL-warns-of-organized-crime-threat-to-COVID-19-vaccines>

Extract. “INTERPOL has issued a global alert to law enforcement across its 194 member countries warning them to prepare for organized crime networks targeting COVID-19 vaccines, both physically and online. The INTERPOL Orange Notice outlines potential criminal activity in relation to the falsification, theft and illegal advertising of COVID-19 and flu vaccines, with the pandemic having already triggered unprecedented opportunistic and predatory criminal behaviour. It also includes examples of crimes where individuals have been advertising, selling and administering fake vaccines. As a number of COVID-19 vaccines come closer to approval and global distribution, ensuring the safety of the supply chain and identifying illicit websites selling fake products will be essential.”

- Europol. **Europol predictions correct for fake COVID-19 vaccines.** Newsroom. Published December 4, 2020. Accessed December 14, 2020. <https://www.europol.europa.eu/newsroom/news/europol-predictions-correct-for-fake-covid-19-vaccines>

Extract. “There have already been cases of advertisements on dark web marketplaces using the brands of genuine pharmaceutical companies that are already in the final stages of testing. These counterfeit vaccines may pose a significant risk to public health if they are ineffective or toxic, given their production in labs without the required hygiene standards. These fake vaccines may circulate on illicit markets or be introduced to the legal market for distribution. Europol actively encourages Member States to share any relevant information on criminal activities related to COVID-19 or flu vaccines.”

- UNODC. **Covid-19 Vaccines & Corruption Risks: Preventing Corruption in the Manufacture, Allocation and Distribution of Vaccines.;** 2020. Accessed December 14, 2020. https://www.unodc.org/documents/corruption/COVID-19/Policy_paper_on_COVID-19_vaccines_and_corruption_risks.pdf

Extract. *“With COVID-19 vaccines being approved for use in different parts of the globe, the scale and complexity of their manufacture, allocation and distribution globally will be unprecedented. This will also present corruption risks that may threaten vital public health goals. These risks include the entry of substandard and falsified vaccines into markets, theft of vaccines within the distribution systems, leakages in emergency funding designated for the development and distribution of vaccines, nepotism, favouritism, and corrupted procurement systems. These corruption risks must be identified and mitigated by public institutions to help advance access to safe and effective COVID-19 vaccines by the population, including the most vulnerable and marginalized groups.”*

4. Reports from the scientific literature

Newton PN, Bond KC. **COVID-19 and risks to the supply and quality of tests, drugs, and vaccines.** *Lancet Glob Health.* 2020 June;8(6): e754–e755. doi: 10.1016/S2214-109X(20)30136-4. Epub 2020 Apr 9. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7158941/>

Extract. *“Without preparation for the quality assurance of diagnostic tests, drugs, and vaccines, the world risks a parallel pandemic of substandard and falsified products. Interventions are needed globally to ensure access to safe, quality assured, and effective medical products on which the world's population will depend.”*

Schneider M, Ho Tu Nam N. **Africa and counterfeit pharmaceuticals in the times of COVID-19.** *J. Intellect. Prop. Law & Practice.* Online ahead of print: jpaa073. doi: 10.1093/jiplp/jpaa073. Epub 2020 May 1. <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7197578/>

Extract. *“At a time where counterfeit and substandard medications and critical medical supplies, such as hand sanitizers and face masks, are flooding the world market due to the COVID-19 pandemic, the 2020 report from the Organisation for Economic Co-operation and Development and the European Union Intellectual Property Office on ‘Trade in Counterfeit Pharmaceutical Products’ finding that trade in falsified medicine reached USD 4.4 billion in 2016, threatening public health and safety, while enriching criminals and organized crime, is very timely” [...] “Already in March, in Uganda, a father and daughter duo were arrested for administering a fake vaccine against the coronavirus. Fear of the virus and the inability to verify the authenticity of products are pushing the African population towards fake and substandard pharmaceuticals products and medical supplies obtained from unreliable sources. This trend, which will have a dramatic effect on the health of the population, will go unabated until a vaccine or effective remedy is found.”*

Mackey TK, Li J, Purushothaman V, Nali M, Shah N, Bardier C, et al. **Big Data, Natural Language Processing, and Deep Learning to Detect and Characterize Illicit COVID-19 Product Sales: Infoveillance Study on Twitter and Instagram.** *JMIR Public Heal Surveill.* 2020 Aug 25;6(3):e20794. Available from <http://publichealth.jmir.org/2020/3/e20794/>

Extract. *“ Unfortunately, illegal online sales of COVID-19 health products are likely to continue and possibly accelerate as this health emergency continues to progress. A “flattening of the curve” will not halt the progression of this parallel infodemic, as the public continues to desperately seek access to COVID-19 testing, therapeutics, and an eventual vaccine. As legitimate news about promising and new COVID-19 treatments and countermeasures becomes available, scammers and counterfeiters will inevitably seek to capitalize on desperation and high demand from global citizens who simply want to be safe and prepared against this historic disease.”*

Kohler JC, Wright T. **The Urgent Need for Transparent and Accountable Procurement of Medicine and Medical Supplies in Times of COVID-19 Pandemic.** *J Pharm Policy Pract.* 2020;13(1). doi:10.1186/s40545-020-00256-w

Extract. « *The COVID-19 pandemic has unleashed unprecedented and complex public policy issues. One that has emerged as a challenge for many countries globally is how to ensure the efficient and effective procurement of quality medical supplies. Existing corruption pressures on procurement—everything from undue influence to the outright bribery of public officials—has been amplified by the pandemic, and thus demands commensurate policy responses. We argue that transparency and accountability in procurement are essential to preventing the corruption risks that threaten the health and well-being of populations.* »

[...] *“Corruption in procurement: COVID-19. Promising breakthroughs in COVID-19 medicines research offer seemingly rare glimpses of hope in the fight against the pandemic. For example, a University of Oxford randomized clinical trial demonstrated the beneficial use of dexamethasone, a generic drug, in improving survival rates in COVID-19 patients with respiratory complications. Researchers also conducted successful early clinical trials into a promising vaccine candidate, with the latest results demonstrating the vaccine’s ability to induce a strong immune response. Effective procurement of these products, and others, to treat COVID-19 will depend on robust government procurement practices. Past experience illuminates how corruption in pharmaceutical procurement can distort and restrict equitable access to their life-saving properties by increasing prices, facilitating the distribution of substandard and falsified medicines, and creating shortages.”*

[Preprint] Bae J, Gandhi D, Kothari J, et al. **Challenges of Equitable Vaccine Distribution in the COVID-19 Pandemic.** *Preprint.* Published online November 2020. Accessed December 7, 2020.

https://www.researchgate.net/publication/346356495_Challenges_of_Equitable_Vaccine_Distribution_in_the_COVID-19_Pandemic

Extract. *“Insufficient monitoring of the entire supply chain of vaccine production, distribution, and storage also lends itself to attack by bad actors. If a country does not carefully monitor the total pipeline of vaccine distribution, there may be opportunities for theft and counterfeit vaccine delivery.”*

Forman L, Kohler JC. **Global health and human rights in the time of COVID-19: Response, restrictions, and legitimacy.** *J Hum Rights.* 2020;19(5):547-556. doi:10.1080/14754835.2020.1818556

Extract. « *In the midst of this COVID-19 pandemic, as we experienced with the EVD, the health systems vulnerabilities to corruption are clear. Examples of corruption have been found globally in drug and medical equipment procurement and price gouging of essential supplies, such as hand sanitizer and 3M masks. The European Medicines Agency (EMA) and the WHO have both issued public warnings about the increase in the circulation of falsified medicines. The risk of falsified medicines is not only for those products that may potentially treat COVID-19 but also for other drugs and products, particularly when shortages exist. Newton and Bond (2020) explained that the circulation of substandard and falsified products is heightened when shortages are taking place and quality assurance standards are lax. They advanced the importance of information-sharing among countries to ensure that global demand and supplies are being met and noted that countries need to ensure sufficient regulatory controls. They also pointed out that this will be even more critical once valid COVID-19 treatments are available. Governments and health institutions are also under pressure to purchase and import quickly needed medical equipment and supplies for COVID-19 through emergency procurement processes. The Organisation for Economic Co-operation and Development (OECD) has reported a number of bribery cases in the health industry and the risk of the purchase of inferior or falsified goods.* »

Jarrett S, Wilmansyah T, Bramanti Y, et al. **The role of manufacturers in the implementation of global traceability standards in the supply chain to combat vaccine counterfeiting and enhance safety monitoring.** *Vaccine*. 2020;38(52):8325. doi:10.1016/j.vaccine.2020.11.011

Abstract. « *The counterfeiting of vaccines is an increasing problem globally with the safety of persons vaccinated, the trust in vaccines generally and the associated reputation of vaccine manufacturers and regulatory agencies at risk. This risk is especially critical with the on-going development of COVID-19 vaccines. The ability to track and trace vaccines through the vaccine supply chain down to persons vaccinated has to be enhanced. In this context of traceability, the global immunization community has recently set the barcoding of the primary packaging of vaccines, specifically vaccine vials and pre-filled syringes, as a top priority. Emerging vaccine manufacturers are already engaged in investigating ways to incorporate barcoding in their labelling and packaging using GS1 international standards. A specific pilot taking place in Indonesia by the national vaccine manufacturer, Bio Farma, shows the innovation of barcoding on primary packaging already underway with a relatively modest level of investment and success at this stage. This article highlights the efforts of industry and governments on the value of traceability and introduction to 2D barcodes. Access to financial resources and support from the international immunization community would accelerate such innovations leading to enhanced security of the vaccine supply chain.* »

Bracci A, Nadini M, Aliapoulos M, et al. **Dark Web Marketplaces and COVID-19: before the vaccine.** *EPJ Data Sci.* 2021;10(1):1-26. doi:10.1140/epjds/s13688-021-00259-w

Abstract. “*The COVID-19 pandemic has reshaped the demand for goods and services worldwide. The combination of a public health emergency, economic distress, and misinformation-driven panic have pushed customers and vendors towards the shadow economy. In particular, dark web marketplaces (DWMs), commercial websites accessible via free software, have gained significant popularity. Here, we analyse 851,199 listings extracted from 30 DWMs between January 1, 2020 and November 16, 2020. We identify 788 listings directly related to COVID-19 products and monitor the temporal evolution of product categories including Personal Protective Equipment (PPE), medicines (e.g., hydroxychloroquine), and medical frauds. Finally, we compare trends in their temporal evolution with variations in public attention, as measured by Twitter posts and Wikipedia page visits. We reveal how the online shadow economy has evolved during the COVID-19 pandemic and highlight the importance of a continuous monitoring of DWMs, especially now that real vaccines are available and in short supply. We anticipate our analysis will be of interest both to researchers and public agencies focused on the protection of public health.*”

5. Regulatory alerts

This section is work on progress and many further reports need to be added.

US Food & Drug Administration. **Beware of Fraudulent Coronavirus Tests, Vaccines and Treatments.** Consumer Updates. Published February 10, 2021. Accessed February 12, 2021. <https://www.fda.gov/consumers/consumer-updates/beware-fraudulent-coronavirus-tests-vaccines-and-treatments>

Health Canada. **Health Canada warns Canadians not to buy COVID-19 vaccines sold online or from unauthorized sources - Recalls and safety alerts.** Accessed February 12, 2021. <https://healthycanadians.gc.ca/recall-alert-rappel-avis/hc-sc/2020/74579a-eng.php>

6. Miscellaneous

Farrell G, Johnson SD. **Preventing a Coronavirus Vaccine Crime Wave.** *UCL JDI Spec Ser COVID-19.* 2020;(24):1-2. Accessed January 4, 2021.

https://www.ucl.ac.uk/jill-dando-institute/sites/jill-dando-institute/files/vaccine_crime_wave_no_24_final.pdf

Extract. « *Huge increases in theft and robberies can be expected, including interceptions of shipments, counterfeiting and other fraud, and black-markets (with high prices), promoting corruption and organised crime. Monetary costs will be in the billions. Human costs will arise as vaccine distribution is disrupted and delayed, and as counterfeits are used by unsuspecting victims. Vaccine distribution will be hindered and effectiveness reduced. If reinfection and virus mutations extend the vaccination process, they will potentially also extend the crime.* »

Fight the Fakes. Updated statement regarding COVID-19 and falsified medical products. Updates. Published December 2020. Accessed January 19, 2021.

<http://fightthefakes.org/updated-statement-regarding-covid-19-and-falsified-medical-products/>

Extract. « *The Fight the Fakes Alliance and its members would like to stress that the risk of falsified versions of such vaccines being advertised is imminent. With approved diagnostics, treatments and vaccines it is now more important than ever to only purchase medical products from trusted, authorized sources. Particularly buying COVID-19 medical products from unknown, unauthorized online sellers or online pharmacies bears a high risk of purchasing falsified products. Using medical products that have not been approved for COVID-19 without medical supervision pose a significant risk to patient's well-being and safety. Any misleading and deliberately fake information on COVID-19 circulating on social media and media has been described as an infodemic by the WHO.*

The Fight the Fakes Alliance is calling on all its members and the broader global health community to raise awareness of falsified medical products promising to treat, protect from or cure COVID-19. We are no longer just fighting a virus, but now also an ever-growing infodemic.»

National Association of Boards of Pharmacy. **Rogue Online Pharmacies in the Time of Pandemic: Capitalizing on Misinformation and Fear.** 2020. Accessed November 13, 2020. <https://nabp.pharmacy/wp-content/uploads/2020/05/Rogue-Rx-Activity-Report-May-2020.pdf>

Extract. « *In an effort to protect vulnerable consumers, government agencies are cracking down on COVID-related cybercrime. NABP applauds these efforts. Regulators, members of Congress, and state attorneys general are also asking the private sector for assistance. Many internet intermediaries have stepped up to the plate, shutting down fraudulent face mask, vaccine, and test kit sellers. However, illegal internet "pharmacies" continue, largely unabated, to peddle falsified, substandard, and dangerous drugs, including purported treatments for COVID-19. This behavior is predictable; these bad actors have been around for over 20 years. We can – and must – stop it now.* »

National Association of Manufacturers. **Countering Counterfeits: The Real Threat of Fake Products.** *White paper.* July 2020.

[https://www.nam.org/wp-content/uploads/2020/07/CounteringCounterfeits.vF .pdf](https://www.nam.org/wp-content/uploads/2020/07/CounteringCounterfeits.vF.pdf)

Extract. « *Counterfeiting is not a new problem; it has harmed manufacturers, American workers and consumers for years. But the problem is getting worse, and the COVID-19 pandemic has shown just how dangerous inaction can be. As part of the nation's critical response effort, manufacturers have been supplying health care workers and other Americans*

on the front lines of this crisis with vital goods, including personal protective equipment, hospital beds, ventilators, hand sanitizers, cleaning supplies and other critical health care and safety products. But while manufacturing men and women work long hours to ramp up production of desperately needed products to fight the spread of this deadly illness, counterfeiters have exploited the crisis to peddle fake tests, dangerous vaccines and ineffective protective gear. These counterfeits are harming American citizens and hindering manufacturers' efforts to protect their workers and communities. The prevalence of counterfeits in the COVID-19 response has brought new urgency to this long-simmering issue. So the National Association of Manufacturers is leading the charge against fake and counterfeit goods, bringing together diverse stakeholders and driving innovative policy solutions to address these issues once and for all and to ensure the long-term success of our sector and the safety and security of the people who rely on our products. »

Taylor/Bhekisisa D. **Little Vials, Big Crime: Criminals Primed For. Health Policy Watch - Health Systems.** Published February 11, 2021. Accessed February 12, 2021. <https://healthpolicy-watch.news/little-vials-big-crime-criminals-primed/>

Extract. "In Africa, you have all the elements necessary to allow a black market in vaccines to flourish," says Meyer. "Lack of resources, logistics and technical capacity means it's going to take incredibly long for the roll-outs to happen. That gives organised crime the time and space needed to strategise, adapt to security measures and to insert their products into supply chains. The poverty and official corruption that's unfortunately prevalent throughout Africa makes their job much easier."

The Partnership for Safe Medicines. **Watch Out For COVID-19 Vaccine Scams.** Accessed February 15, 2021. <https://www.safemedicines.org/covid-vaccine-scams>

Extract. "There has been a huge upsurge in scams since the start of the global COVID-19 outbreak. Fake treatments, fake versions of real treatments, fake medical products including personal protective equipment, and fraud surrounding everything from unemployment payments to business relief aid. COVID-19 vaccines are modern medical miracles produced in record time with a high effectiveness rate. Everyone should get one, but the rollout will take time. In the meantime COVID scammers are preying on the public to try and make a buck, and in some cases, endangering their lives."

PSM is describing three broad categories of COVID-19 vaccine crime: 1) Vaccines Signups Dangled For Financial And Identity Theft, 2) Diversion: Shots For Sale Where They Shouldn't Be, 3) Fake Substances Sold As Vaccines.

U.S. Immigration and Customs Enforcement, Homeland Security Investigations. **Operation Stolen Promise - an initiative targeting COVID-19 Fraud.** Operation Stolen Promise. Published 2020. Accessed December 16, 2020.

Extract. « U.S. Immigration and Customs Enforcement (ICE) Homeland Security Investigations (HSI) launched Operation Stolen Promise (OSP) in April 2020 to protect the Homeland from the increasing and evolving threat posed by COVID-19-related fraud and criminal activity. Since the Operation's inception, HSI has capitalized upon its unique and expansive federal criminal investigative authorities; its strong intelligence analysis capabilities and resources; its expansive domestic and international footprint; and its robust law enforcement and private sector partnerships to lead the government's investigative response to pandemic-related crime. In the coming months, HSI anticipates that high public demand for access to vaccines and treatments will lead to illegal attempts to introduce counterfeit versions of these items into U.S. and global marketplaces. In response, HSI has initiated Operation Stolen Promise 2.0, which expands the focus of OSP to address this emerging public health threat. »

Annex: MQM Globe general discussions and alerts on COVID-19 vaccines

In addition to the above warnings, that our team collected ad hoc, please have a look at the annex. It contains general discussions the MQM Globe holds on SF COVID-19 vaccine issues and was automatically generated for the period of the 1st of November to the 10th of February 2020.

Many articles are discussing alerts by regulatory authorities or the challenges of the distribution of the COVID-19 vaccines: describing the possible shortages and the concurrent threats of theft, diversion, price gouging, falsification, and some of the solutions to overcome the challenges such as blockchain technology to monitor the COVID-19 vaccine supply chain.

Medicine Quality Monitoring Globe

February 12, 2021



This is a summary of the information available in the Medicine Quality Monitoring Globe for the search terms selected between the dates selected. For more information on the terminology used, caveats and the work of the medicine quality group please see the information at: <https://www.iddo.org/medicine-quality>

Non-Curated reports are those that have been automatically flagged as relevant by the system but have not been manually curated by the curators.

We would be grateful for any feedback on this summary and for the details of any reports that we may have missed.

Filters applied for this report

Search ("vaccine" OR "Sputnik V" OR "CoronaVac" OR "Ad5-nCoV") AND ("CV19" OR "新冠病毒" OR "武汉新型冠状病毒" OR "非典" OR "SARS" OR "CoV-2" OR "ví rus corona" OR "武汉肺炎" OR "COVID-19" OR "COVID" OR "新冠疫情" OR "新型冠状病毒肺炎" OR "SARS-CoV-2" OR "CV" OR "Coronavirus" OR "CV-19" OR "SRAS" OR "新型冠状病毒" OR "新冠")

Start date	2020-11-01
End date	2021-02-10
Language	en
Report type	general
Curation status	validated
Number of Reports	79

1 Cofepris warns of fake Covid-19 vaccines selling around Mexico

Publication date	2021-02-06
Create date	2021-02-08
Score	20.47
Report id	927500
Category	Vaccine
Quality	Falsified
Source	Other
Curation	Manually curated
Incident or General	General

Snippet: Cofepris warns of fake Covid-19 vaccines selling around Mexico Riviera Maya News

Click here to see the [Original Article](#)

Table 1: Places for report 927500

Region Name	Country	Location	Latitude	Longitude
Americas	Mexico	Riviera Maya	20.50807	-87.2287

Table 2: Drugs for report 927500

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The Federal Commission for the Protection against Sanitary Risks (Cofepris) launched an alert for the sale of fake Covid-19 vaccines. The public health agency warns of their sale on the internet through social networks, by telephone, pharmacies, hospitals and even points of sale.

They say it is the AstraZeneca vaccine in particular that is being offered. In a statement, the agency stressed that acquiring this type of drug "constitutes a health risk due to its unknown origin," adding that anyone seeing the AstraZeneca SA de CV vaccine for sale, "should not purchase it since, at the moment in Mexico, its sale to the private sector is not authorized." [...]

2 Law enforcement officials warn about vaccine scams | Coronavirus

Publication date	2020-12-30
Create date	2020-12-31
Score	19.11
Report id	869163
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Law enforcement officials warn about vaccine scams | Coronavirus coloradopoltics.com

Click here to see the [Original Article](#)

Table 3: Places for report 869163

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Colorado	39.00027	-105.50083

Table 4: Drugs for report 869163

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 5: Other Stories

ID	Title	Link
869379	Colorado Attorney General Warns Of COVID Vaccine Scams, Promises To Prosecute	Link
886685	Be on the lookout for COVID-19 vaccine scams: Laws prohibit sale or advertising of fake COVID-19 vaccinations	Link
871072	Colorado attorney general issues warning about COVID-19 vaccination scams	Link
890060	Avoiding COVID-19 vaccine scams	Link

Notes: Law enforcement and other officials in Colorado are joining the nationwide warning for people to watch out for scams tied to COVID-19 vaccines.

Some of those scams may claim that the vaccines carry a cost, or that with payment, they are guaranteed an earlier spot in line to receive a vaccine. The scams may also result in the victim getting a black market or phony vaccine.

On Dec. 3, the U.S. Department of Health and Human Services issued a fraud alert regarding scams tied to COVID-19, including on vaccines. That alert warned that "Scammers are using telemarketing calls, text messages, social media platforms and door-to-door visits to perpetrate COVID-19-related scams." [...]

3 Swiss regulator warns of fake COVID-19 vaccines, urging not to order vaccines online

Publication date	2021-01-12
Create date	2021-01-13
Score	18.85
Report id	888828
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Swiss regulator warns of fake COVID-19 vaccines, urging not to order vaccines online
The Star Online

Click here to see the [Original Article](#)

Table 6: Places for report 888828

Region Name	Country	Location	Latitude	Longitude
Europe	Switzerland	Switzerland	47.00016	8.01427

Table 7: Drugs for report 888828

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 8: Other Stories

ID	Title	Link
889350	Swiss regulator warns of fake Covid-19 vaccines	Link
889363	Swiss regulator warns of fake Covid-19 vaccines, urging not to order vaccines online	Link
925594	Swiss regulator warns of fake Covid-19 vaccines online	Link
890849	Beware of fake Covid-19 vaccines: When, where and how to receive the genuine vaccine?	Link

Notes: Switzerland's health regulator Swissmedic on Tuesday warned of the danger of buying vaccines online, saying that fake coronavirus vaccines are already being offered on the internet. In a statement issued Tuesday, Swissmedic said that as the demand for coronavirus vaccines being on the rise, criminal individuals and organizations are exploiting people's fears by offering fake vaccines on the internet.

"Crimes involving illegal medicines and vaccines, and especially COVID-19 vaccines, pose a serious threat to the health and lives of the population," the statement said.

"Very often, the products they are offering are fakes that either contain no active ingredients at all or else contain dangerous substances that can endanger people's health. In many cases, advance payments are made and nothing is ever delivered," it added. [...]

4 SC hears plea seeking prevention of circulation of fake COVID-19 vaccine

Publication date	2020-12-29
Create date	2020-12-31
Score	18.66
Report id	867095
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: SC hears plea seeking prevention of circulation of fake COVID-19 vaccine BW Businessworld

Click here to see the [Original Article](#)

Table 9: Places for report 867095

Region Name	Country	Location	Latitude	Longitude
Southern Asia	India	New Delhi	28.63576	77.22445

Table 10: Drugs for report 867095

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 11: Other Stories

ID	Title	Link
867156	SC hears plea seeking prevention of circulation of fake Covid-19 vaccine	Link
869006	Govt should create strict guidelines to prevent fake Covid vaccines from being sold: Plea in SC	Link
868581	PIL in SC cites INTERPOL's notice, wants action against fake COVID vaccine rackets	Link

Notes: New Delhi [India], December 29 (ANI): A Public Interest Litigation (PIL) has been filed before the Supreme Court on Tuesday by lawyer, Vishal Tiwari, seeking a direction to the Union of India (UoI) and others, to issue strict guidelines and regulations under the Disaster Management Act by constituting a special committee to prevent the chances of sale or circulation of fake and counterfeit COVID-19 vaccine by any organisation, company or online apps. The petitioner in his PIL sought a direction that the respondents, including the Centre, be directed to run an awareness programme for the safety of the citizens against the danger of counterfeit vaccination of coronavirus. Tiwari, in his petition, sought a direction that the respondents be directed to enact a strict law against the criminal act committed by selling or circulating counterfeit coronavirus vaccine by any organisation or individual. The petitioner cited that the pandemic took the entire world into its captivity. He further stated in his plea that all countries started research for its cure. After several months of research, some countries have been successful in inventing the vaccine against COVID-19. [...]

5 NBI to strengthen monitoring of fake COVID-19 vaccines

Publication date	2021-02-05
Create date	2021-02-08
Score	18.58
Report id	925590
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: NBI to strengthen monitoring of fake COVID-19 vaccines ptnnews.ph

Click here to see the [Original Article](#)

Table 12: Places for report 925590

Region Name	Country	Location	Latitude	Longitude
South-Eastern Asia	Philippines	Republic of the Philippines	13	122

Table 13: Drugs for report 925590

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The Department of Justice (DOJ) has ordered the National Bureau of Investigation (NBI) to strengthen its monitoring of fake Coronavirus Disease 2019 (COVID-19) vaccines.

DOJ Secretary Menardo Guevarra pointed out that this was after news of fake vaccines from China have been discovered in different countries. The NBI will use its assets to be on the lookout for possible smuggling of the said products. [...]

6 FDA offers tips to avoid coronavirus vaccine scams

Publication date	2020-12-01
Create date	2020-12-07
Score	18.55
Report id	827469
Category	Vaccine
Quality	Substandard or Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: FDA offers tips to avoid coronavirus vaccine scams Yahoo Money

Click here to see the [Original Article](#)

Table 14: Places for report 827469

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 15: Drugs for report 827469

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 16: Other Stories

ID	Title	Link
835616	Virginia Attorney General warns against possible COVID-19 vaccination scams	Link
845628	Get vaccinated, not scammed. Here's how to avoid covid-19 cons.	Link
829758	FDA Warns of Possible Scams As COVID-19 Vaccine Approaches Approval	Link
835981	Tips for avoiding coronavirus vaccine scams	Link
852719	The COVID-19 Vaccine is Here. What Does That Mean for Counterfeiting?	Link

Notes: Americans are anxiously anticipating approval and public distribution of a COVID-19 vaccine to inoculate the masses and return to normalcy — and scammers are standing by. Government agencies like the Federal Trade Commission, Department of Homeland Security, and Food and Drug Administration have issued warnings to Americans to be wary of groups or individuals offering COVID-19 vaccines or cures because a vaccine has yet to be approved by the FDA. [...]

7 Public warned that fake COVID-19 vaccines sold online 'may pose risk to health'

Publication date	2021-01-19
Create date	2021-01-21
Score	18.38
Report id	899525
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Public warned that fake COVID-19 vaccines sold online 'may pose risk to health' CTV News Vancouver

Click here to see the [Original Article](#)

Table 17: Places for report 899525

Region Name	Country	Location	Latitude	Longitude
Americas	Canada	Vancouver	49.24966	-123.11934

Table 18: Drugs for report 899525

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 19: Other Stories

ID	Title	Link
900639	Immunize BC warns of fake COVID-19 vaccines sold online News	Link
899733	Fake COVID-19 vaccines sold online may 'pose risks to health': ImmunizeBC	Link

Notes: ImmunizeBC is warning the public not to buy supposed COVID-19 vaccine doses that are being advertised online.

The organization said there have been reports of emails and websites promising to provide coronavirus vaccines for money – but the products don't work, and could actually harm the people who use them. [...]

8 Top Security Official Warns of COVID Vaccine Scams

Publication date	2020-12-18
Create date	2020-12-22
Score	18.34
Report id	852814
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Top Security Official Warns of COVID Vaccine Scams AARP

Click here to see the [Original Article](#)

Table 20: Places for report 852814

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 21: Drugs for report 852814

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 22: Other Stories

ID	Title	Link
859945	Top Security Official Warns of COVID Vaccine Scams	Link

Notes: Criminals are targeting not only individuals but also care facilities, he says, describing a phony "pharmaceutical representative" who offered to sell a residential care facility a number of vaccines to inoculate its patients and staff. Fortunately, though, administrators suspected something was amiss, contacted Pfizer and learned it was a ruse, he says.

Talking about the pandemic-induced onslaught of scams and frauds, Kubiak says Pfizer noticed criminal organizations purporting to sell coronavirus vaccines last spring, many months before the U.S. Food and Drug Administration (FDA) on Dec. 11 authorized the Pfizer-BioNTech

COVID-19 vaccine for emergency use in this country. (Now the FDA is poised to authorize a second coronavirus vaccine, from Moderna, for emergency use in the U.S.)

Throughout the health crisis, Pfizer surveilled COVID-19 scams and reported what it spotted to government authorities, Kubiak says. "We began to scour the open web and the dark web for anything — any intelligence — related to COVID-19 related scams." The intelligence it tracked and shared dealt with counterfeit protective gear — face masks, gloves and gowns, for example — and counterfeit treatments. [...]

9 Sales of fake Covid-19 vaccines seen on ‘dark web’

Publication date	2021-01-09
Create date	2021-01-11
Score	18.11
Report id	883836
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Sales of fake Covid-19 vaccines seen on ‘dark web’ Buenos Aires Times

Click here to see the [Original Article](#)

Table 23: Places for report 883836

Region Name	Country	Location	Latitude	Longitude
Americas	Argentina	Argentine Republic	-34	-64

Table 24: Drugs for report 883836

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The murky world of cybercrime has acquired a new dimension with the coronavirus pandemic in the form of increased sales of fake vaccines on the dark web as countries across the world embark on vaccination campaigns. Hawking false antidotes against Covid-19 is a worldwide problem that has worried organisations like the FBI and Interpol in recent weeks, while here in Argentina companies related to cybersecurity are also issuing warnings. "At a time when the logistics of various vaccines is taking off worldwide, we are detecting the possibility of acquiring various brands of vaccine, among them AstraZeneca Covid-19 Vaccine," said BTR Consulting, a firm specialising in cybersecurity. "They offer a specific quote in Bitcoins to eliminate price volatility, specifying conditions of delivery, including changing the original label to ‘saltwater’ for ‘safer’ transport and thus seeking anonymity at any time," among other digital frauds in websites selling vaccines but which end up robbing money and information from users, the firm added. [...] Beyond money, these crimes endanger health since they also sell fake vaccines, recommending forms of application and even using a "look and feel" system similar to the Amazon marketplace. The "terms and conditions" section is normally vacant but the

number of units sold and available stock are indicated.

10 EU police agency Europol warns of fake coronavirus vaccines

Publication date	2020-12-04
Create date	2020-12-07
Score	17.94
Report id	831487
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: EU police agency Europol warns of fake coronavirus vaccines ActionNewsJax.com

Click here to see the [Original Article](#)

Table 25: Places for report 831487

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 26: Drugs for report 831487

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 27: Other Stories

ID	Title	Link
833821	Public warned of fake Covid-19 vaccine risk as gangs hope to cash in	Link
838431	EU police agency Europol warns of fake coronavirus vaccines	Link
832810	Medical products regulator urges people to be vigilant for fake Covid-19 vaccines	Link
846125	EU police agency Europol warns of fake coronavirus vaccines	Link
832819	Police warning over dangerous fake coronavirus vaccines	Link

Table 27: Other Stories(continued)

ID	Title	Link
875835	Officials warn of fake COVID-19 vaccines	Link
832071	European Union police agency Europol warns against counterfeit COVID-19 vaccines, fraud	Link
855959	Europol Warns COVID-19 Vaccine Rollout Vulnerable to Fraud, Theft	Link
831653	EU Police Agency Europol Warns of Fake Coronavirus Vaccines	Link
861352	EU police agency Europol warns of fake coronavirus vaccines	Link
864428	Europol warns of risk of coronavirus vaccine fraud - Europol warns of fraudulent and fake vaccines	Link
864173	Covid-19: Europol warns of fraudulent and fake vaccines	Link
831698	EU police agency Europol warns of fake coronavirus vaccines - KTAB	Link
853734	EU police agency Europol warns of fake coronavirus vaccines	Link
923132	CRISIS UNFOLDING: Fake vaccines, a new bane of the pandemic	Link

Notes: European Union police agency Europol issued a warning Friday highlighting the risk of organized crime scams linked to COVID-19 vaccines, including the possibility criminals will try to sell dangerous counterfeit vaccines or to hijack shipments of genuine shots. [...] "Once a legitimate vaccine enters the market, counterfeited versions of the specific vaccine brand are expected to circulate rapidly," the agency's warning said, citing a phony flu vaccine that the World Health Organization discovered in Mexico in October. "Similar to the fake influenza vaccine encountered in Mexico, counterfeit COVID-19 vaccines may represent a significant public health threat if they are ineffective at best or toxic at worst, given their production in underground labs without hygiene standards," Europol said. "Fake vaccines may even have a wider-reaching impact if new outbreaks emerge in communities assumed to be vaccinated." [...]

11 Interpol warns against organised criminal networks selling 'fake vaccines'

Publication date	2020-12-02
Create date	2020-12-02
Score	17.56
Report id	828283
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Interpol warns against organised criminal networks selling 'fake vaccines' Newsbook

Click here to see the [Original Article](#)

Table 28: Places for report 828283

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 29: Drugs for report 828283

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 30: Other Stories

ID	Title	Link
829441	Interpol warns about fake, stolen COVID vaccines	Link
842242	Pfizer and BioNTech vaccine: Scots warned of Covid scams including fake vaccines	Link
872199	Interpol Warns Of Criminal Activities Related To Coronavirus Vaccines	Link
834827	Interpol warns organised crime will target COVID-19 vaccines	Link
828428	Crime gangs threaten COVID-19 vaccine campaigns, Interpol warns	Link

Table 30: Other Stories(continued)

ID	Title	Link
839696	Cyber Attackers Threaten COVID-19 Vaccine Distribution Chain Faegre Drinker Biddle & Reath LLP	Link
867092	Issue directions to Centre to prevent organized crime rackets around fake COVID-19 vaccines: Plea in Supreme Court - Bar & Bench	Link
859161	Could Fake Vaccine Criminals Be Thwarted By Technological Solutions?	Link
837147	Interpol Warns The Mafia May Try To Steal COVID Vaccines, Sell Fake Ones	Link
838432	How Will Government Deal With Fake Vaccine, Interpol Warns 194 Countries Uncut	Link
829230	Interpol issues a global alert warning that criminal groups plan to target COVID-19 vaccines	Link
828726	Interpol warning of fake, stolen vaccines TheHill	Link
833593	Coronavirus – Interpol warns organised crime gangs will be out to hijack ‘liquid gold’ Covid-19 vaccines	Link
829767	Beware! Criminal networks could try to sell fake COVID vaccines physically and on internet, warns Interpol	Link
840522	Scots warned of Covid-19 scams including fake vaccines	Link
842570	Interpol, IBM Security Experts Issue Warnings Of Criminal Efforts Targeting Coronavirus Vaccine Distribution	Link
843851	Interpol warns that criminals are primed to create fake Covid vaccines	Link
858189	Beware: There Are Fake, Stolen COVID-19 Vaccines Out There	Link
830541	Beware: There Are Fake, Stolen COVID-19 Vaccines Out There	Link
829006	Fake COVID-19 vaccines warning issued, shots could be targeted by criminals: Interpol	Link
828496	Interpol warns of organized crime threat to Covid-19 vaccines	Link
829776	Covid-19 wrap: Global cases cross 63.37m, Interpol warns of vaccine criminals, mask guidelines tightened	Link
830802	‘Beware of fake COVID-19 vaccine’, Interpol warns 194 nations	Link
830292	Interpol warns of organised crime threat to coronavirus vaccine via Orange Notice	Link
847192	Beware: There Are Fake, Stolen COVID-19 Vaccines Out There	Link
853081	Report: Purported COVID-19 Vaccines Hit Dark Web	Link
829537	Interpol warns that organized crime groups will likely try to steal ‘liquid gold’ COVID vaccines as well as pe	Link

Table 30: Other Stories(continued)

ID	Title	Link
829283	Federal Investigators warn of counterfeit COVID-19 vaccine fraud	Link
867948	Interpol shares details of organised crime hand in fake vaccines found in SA	Link
837487	Interpol warns that COVID-19 vaccines could be targeted by criminals	Link
841847	More COVID-19 scams: Criminal networks expected to pitch fake vaccines	Link
859523	Fake COVID-19 Vaccines are Already Being Sold Online	Link
828804	The Mafia Is Probably Going To Try To Get Their Hands On The COVID Vaccine	Link
834948	Beware fake coronavirus vaccines, says Interpol	Link
828817	Interpol warns that criminals are primed to create fake Covid vaccines	Link
845205	Police and public health working together to protect COVID-19 vaccine from 'sabotage,' says BC's top doc	Link
828317	Beware fake coronavirus vaccines, says Interpol	Link
828338	Organized criminal networks could be targeting COVID-19 vaccines, Interpol warns	Link
828595	Interpol warns international authorities about threat of fake Covid-19 vaccines	Link
858038	MP govt tightens law against food, drug adulteration amid Interpol warning on fake Covid-19 vaccine	Link
921273	Mexico says illicit labs are making fake COVID-19 vaccines	Link
860345	Crime gangs threaten Covid-19 vaccine campaigns, Interpol warns	Link
830656	COVID-19 vaccines could be targeted by crime groups, Interpol says	Link
829124	Interpol warns world against coronavirus vaccine fraud by mob	Link
829638	Beware of fake COVID-19 vaccine: Interpol's global alert on organised crime targeting vax, supply chain	Link
855498	Pfizer and BioNTech vaccine: Scots warned of Covid scams including fake vaccines	Link
828877	COVID-19: Criminals could target vaccine supply chains or create fakes, Interpol warns	Link
829645	Criminal networks could try to sell fake Covid-19 vaccines physically and on internet, warns Interpol	Link
851422	Don't buy a fake vaccine online as it arrives in Mississauga next week	Link
841193	COVID-19: Criminals could target vaccine supply chains or create fakes, Interpol warns	Link

Table 30: Other Stories(continued)

ID	Title	Link
840426	Interpol on fake vaccine; India to see \$66 bn investment in gas infrastructure	Link
829933	Interpol warns criminals may sell fake Covid vaccine online	Link
861168	Interpol: Vaccine Ushers an 'Onslaught' of Criminal Activity	Link
829180	Interpol Warns About Potential Fake, Stolen COVID-19 Vaccines From Criminal Organizations	Link
829181	Feds warn of counterfeit COVID-19 vaccine fraud	Link

Notes: The Interpol warned that organised criminal networks could be targeting COVID-19 vaccines, and could look to sell fake shots.

Interpol said it had issued a global alert to law enforcement across its 194 member countries, warning them to prepare for organised crime networks targeting COVID-19 vaccines, both physically and online.

With demand for personal protection and hygiene products growing exponentially, criminals are seeking to make a profit by selling substandard or counterfeit items such as surgical masks, and even outright fake 'coronavirus medicine'. [...]

12 Watch out for fake COVID-19 vaccines as drug companies near FDA approval, feds warn

Publication date	2020-11-30
Create date	2020-12-01
Score	17.51
Report id	826177
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Watch out for fake COVID-19 vaccines as drug companies near FDA approval, feds warn San Luis Obispo Tribune

Click here to see the [Original Article](#)

Table 31: Places for report 826177

Region Name	Country	Location	Latitude	Longitude
Americas	United States	San Luis Obispo	35.28275	-120.65962

Table 32: Drugs for report 826177

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 33: Other Stories

ID	Title	Link
836913	Covid vaccine scams are on the rise. Here's how to make sure you get a real one	Link
836931	Beware of Covid Vaccine Scams. Here's How to Make Sure You Get a Real One	Link
841056	Watch out for fake COVID-19 vaccines as drug companies near FDA approval, feds warn	Link
848271	Watch out for fake COVID-19 vaccines as drug companies near FDA approval, feds warn	Link

Table 33: Other Stories(continued)

ID	Title	Link
858008	Watch out for fake COVID-19 vaccines as drug companies near FDA approval, feds warn	Link
833191	Watch out for fake COVID-19 vaccines as drug companies near FDA approval, feds warn	Link
830649	Beware of COVID-19 scams as vaccine approaches FDA approval - WIVB.com	Link
837088	WARNING: How to spot a COVID-19 vaccine scam	Link
850428	US officials warn of escalating COVID-19 vaccine scams - Xinhua English.news.cn	Link

Notes: [...] As a COVID-19 vaccine nears, bringing hope for an end to the pandemic, criminal organizations big and small will be looking to take advantage by peddling fake and potentially dangerous vaccines of their own, federal authorities warn.

Scammers have been selling fake cures, treatments and protective equipment since the coronavirus pandemic began eight months ago, but Immigration and Customs Enforcement is "preparing for a surge in anticipated fraud" as drug companies approach approval from the Federal Drug Administration and prepare to distribute their vaccines, ICE announced Monday.

ICE isn't the only agency sounding the alarm. The FBI and Federal Drug Administration have been working with major drug manufacturers, including Pfizer and Moderna, to prepare for distribution, and put protections in place to combat fraud, outlets report. [...]

13 Fake vaccine watch - Government on alert for influx of counterfeit COVID-19 vaccines to the island

Publication date	2021-01-31
Create date	2021-02-01
Score	17.21
Report id	917075
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Fake vaccine watch - Government on alert for influx of counterfeit COVID-19 vaccines to the island Jamaica Gleaner

Click here to see the [Original Article](#)

Table 34: Places for report 917075

Region Name	Country	Location	Latitude	Longitude
Americas	Jamaica	Jamaica	18.16667	-77.25

Table 35: Drugs for report 917075

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Health and Wellness Minister Dr Christopher Tufton says the Government is being proactive against the threat of fake coronavirus vaccines hitting the Jamaican market, as the demand for protection against the dreaded disease increases locally.

Tufton said this has been a consideration for his ministry, prior to last week's warning from Dr Joy St John, executive director of the Trinidad-based Caribbean Public Health Agency (CARPHA), urging regional nations to pay strict attention to the distribution of vaccines to their populations. [...]

14 Cofepris alerts about the illicit sale of the AstraZeneca vaccine

Publication date	2021-02-04
Create date	2021-02-05
Score	17.17
Report id	924171
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: Cofepris alerts about the illicit sale of the AstraZeneca vaccine Explica

Click here to see the [Original Article](#)

Table 36: Drugs for report 924171

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 37: Other Stories

ID	Title	Link
924944	Cofepris alerts for the sale of false vaccines against Covid	Link

Notes: The interest around the vaccines that have begun to be distributed in Mexico and that have proven their effectiveness in various markets around the world have begun to be the focus to carry out hundreds of scams and frauds. The trend now caught up with AstraZeneca.

At least this has been alerted by the Federal Commission for the Protection against Sanitary Risks (Cofepris), an agency that warned about the alleged sale by third parties of the vaccine against the Covid-19 coronavirus, developed by the aforementioned laboratory.

In this way, in recent hours and through a press release, Cofepris indicated that in recent days they have detected the illicit sale of an alleged vaccine against Covid-19 signed by AstraZeneca, which the agency identified as false and part of a scam That puts the integrity and leave the population at risk. [...]

15 With covid-19 vaccines coming, federal investigators grow wary of fraud

Publication date	2020-12-01
Create date	2020-12-08
Score	17.12
Report id	827582
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: With covid-19 vaccines coming, federal investigators grow wary of fraud Washington Post

Click here to see the [Original Article](#)

Table 38: Places for report 827582

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 39: Drugs for report 827582

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Investigators at the Department of Homeland Security are bracing for a new wave of fraud attempts by criminal groups that officials expect will try to take advantage of the extraordinary demand for doses of the coronavirus vaccine.

Pfizer and Moderna, the two drug companies that applied for emergency vaccine approval this week, have said they will produce enough doses for about 20 million people this month. Health-care employees, law enforcement personnel and other front-line workers are expected to be first in line. [...]

16 Feds warn of COVID-19 vaccine scammers using fake websites

Publication date	2020-12-18
Create date	2020-12-22
Score	16.90
Report id	852866
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Feds warn of COVID-19 vaccine scammers using fake websites New York Post

Click here to see the [Original Article](#)

Table 40: Places for report 852866

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 41: Drugs for report 852866

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 42: Other Stories

ID	Title	Link
852867	US seizes 2 fake coronavirus vaccine websites: US Attorney	Link
852894	ICE investigation led to seizure of 2 fraudulent websites purporting to be biotechnology companies developing treatments for COVID-19 vaccine	Link
854430	Scammers set up fake vaccine websites to trick people: DOJ - Business Insider	Link
855974	DOJ Seizes Fake Domains Impersonating Moderna, Regeneron	Link

Table 42: Other Stories(continued)

ID	Title	Link
852962	ICE investigations led to seizure of two websites posing as Covid vaccine companies	Link
856313	Officials shut down fake Moderna, Regeneron websites that allegedly stole users' info for cyberattacks	Link

Notes: Coronavirus vaccine scammers are running wild on the internet — with some setting up fake drug company websites to cash in on the desperate demand for shots, federal authorities said Friday.

A bogus website claiming to belong the drugmaker Moderna — whose vaccine was greenlit by a Food and Drug Administration panel Thursday — was shut down Friday by the U.S. attorney for the District of Maryland, officials said.

Fraudsters set up the sham web domain, mordernatx.com, to steal personal information from customers and potentially send out spyware, according to a press release about the scheme. [...]

17 China Gives Unproven Covid-19 Vaccines to Thousands, With Risks Unknown

Publication date	2020-12-09
Create date	2021-01-10
Score	16.52
Report id	880569
Category	Vaccine
Quality	Substandard
Source	Manufacturer
Curation	Manually curated
Incident or General	General

Snippet: China Gives Unproven Covid-19 Vaccines to Thousands, With Risks Unknown The New York Times

Click here to see the [Original Article](#)

Table 43: Places for report 880569

Region Name	Country	Location	Latitude	Longitude
Eastern Asia	China	Beijing	39.9075	116.39723

Table 44: Drugs for report 880569

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The world still lacks a proven coronavirus vaccine, but that has not stopped Chinese officials from trying to inoculate tens of thousands, if not hundreds of thousands, of people outside the traditional testing process. Three vaccine candidates are being injected into workers whom the government considers essential, along with many others, including employees of the pharmaceutical firms themselves.

Officials are laying out plans to give shots to even more people, citing emergency use, amounting to a big wager that the vaccines will eventually prove to be safe and effective.

China's rush has bewildered global experts. No other country has injected people with unproven vaccines outside the usual drug trial process to such a huge scale. [...] It is not clear how many people in China have received coronavirus vaccines. Sinopharm, a Chinese state-owned company with a vaccine candidate in late-stage trials, has said hundreds of thousands of people

have received its shots. Sinovac, a Beijing-based company, said more than 10,000 people in Beijing had been injected with its vaccine. Separately, it said nearly all its employees — around 3,000 in total — and their families had taken it. [...]

18 Coronavirus vaccine fraud warning issued to everybody in the UK

Publication date	2020-11-14
Create date	2020-11-16
Score	16.50
Report id	804181
Category	Vaccine
Quality	Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: Coronavirus vaccine fraud warning issued to everybody in the UK Birmingham Live

Click here to see the [Original Article](#)

Table 45: Places for report 804181

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	United Kingdom of Great Britain and Northern Ireland	54.75844	-2.69531

Table 46: Drugs for report 804181

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 47: Other Stories

ID	Title	Link
804098	Covid vaccine fraud is 'emerging threat' to UK, National Crime Agency says	Link
804218	Fake coronavirus vaccines an 'emerging threat' to UK, crime agency boss warns	Link
839624	Police chiefs urge people in Staffordshire to be vigilant over 'national trend' of bogus callers offering Covid-19 vaccine	Link

Notes: Concern over fake coronavirus vaccines is spreading among police forces, according to a new report today.

The National Crime Agency (NCA) in the UK are urging Brits to exercise caution amid fears fake coronavirus vaccines could become a threat.

There is a growing threat to the UK from fraudulent antidotes to Covid-19, according to the NCA.

The warning comes in the same week Pfizer announced a groundbreaking breakthrough with its own vaccine, which the health firm says is 90 per cent effective. [...]

19 Coronavirus vaccine rollout is hackers dream: Top five scams in the works

Publication date	2020-12-07
Create date	2020-12-08
Score	16.37
Report id	835169
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Coronavirus vaccine rollout is hackers dream: Top five scams in the works Fox Business

Click here to see the [Original Article](#)

Table 48: Places for report 835169

Region Name	Country	Location	Latitude	Longitude
Americas	United States	New York City	40.71427	-74.00597

Table 49: Drugs for report 835169

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] Cybercriminals will likely take advantage of people willing to make a rash decision for COVID-19 vaccine access, as well as those who are skeptical about the administration's quick rollout of the vaccine. These criminals have the potential to harm supplies, supply chains, cargo shipments and government response efforts, Experian reported. [...]

20 Fake Handbags Are One Thing, But Now Feds Warn of Counterfeit COVID Vaccines and PPE

Publication date	2020-11-25
Create date	2020-11-27
Score	16.30
Report id	818704
Category	Vaccine, Medical devices for disease prevention, Other
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Fake Handbags Are One Thing, But Now Feds Warn of Counterfeit COVID Vaccines and PPE NBC New York

Click here to see the [Original Article](#)

Table 50: Places for report 818704

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 51: Drugs for report 818704

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] Counterfeiting is a big business that harms legitimate commerce and helps criminal networks, the Department of Homeland Security says. But now the feds are warning against other fakes that are much more sinister, and potentially dangerous

Officials said that counterfeit medicine and personal protective equipment are already rampant, and officials fear that false COVID-19 vaccines may be next.

"COVID-19 vaccines will not be available outside regular distribution networks, however these criminal organizations will try to sell you otherwise," said Special Agent in Charge Erik Rosenblatt. "This pandemic has created a massive market for these criminal organizations."

Ahead of the holidays, officials want shoppers to beware of what they buy, and if a deal on anything — whether it's clothes, electronics or even medication or a coronavirus vaccine — is too good to be true, it's probably a fake.

"The market is flooded with counterfeit consumer goods sold online, in stores and on street corners," Rosenblatt said. "Not only ripping off consumers and providing shoddy, dangerous products, but also potentially putting your health and personal financial information at risk."

21 New Mexicans: Beware of COVID-19 Vaccine Scams

Publication date	2020-12-14
Create date	2020-12-15
Score	16.27
Report id	846057
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: New Mexicans: Beware of COVID-19 Vaccine Scams KRWG

Click here to see the [Original Article](#)

Table 52: Places for report 846057

Region Name	Country	Location	Latitude	Longitude
Americas	United States	New Mexico	34.50034	-106.00085

Table 53: Drugs for report 846057

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 54: Other Stories

ID	Title	Link
846404	Attorney General Warns New Mexicans To Beware Of COVID-10 Vaccine Scams	Link
848255	Beware of COVID-19 vaccine scams, warns New Mexico Attorney General	Link
846292	Attorney General Hector Balderas Warns New Mexicans To Beware Of COVID-19 Vaccine Scams	Link

Notes: Attorney General Hector Balderas today issued a consumer safety advisory to New Mexican consumers about the increased proliferation of COVID-19 vaccine related scams, as vaccine rollout begins. Pharmaceutical companies and law enforcement entities across the globe

are warning of organized criminal elements that are taking advantage of the vaccine rollout. These scammers are defrauding and enticing people into purchasing fake COVID-19 vaccines. In response to these scams, Attorney General Balderas warns New Mexican families to be vigilant in seeking or receiving the COVID-19 vaccine. [...]

22 How Hackers Are Targeting COVID-19 Vaccine Distribution Chain - Q/A

Publication date	2020-12-16
Create date	2020-12-22
Score	16.14
Report id	849478
Category	Vaccine
Quality	Falsified
Source	Other
Curation	Manually curated
Incident or General	General

Snippet: How Hackers Are Targeting COVID-19 Vaccine Distribution Chain - Q/A HIT Consultant

Click here to see the [Original Article](#)

Table 55: Places for report 849478

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 56: Drugs for report 849478

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 57: Other Stories

ID	Title	Link
859719	US takes extra measures to secure COVID vaccine shipments	Link
857734	Hackers Threaten COVID-19 Vaccine Distribution Chain	Link

Notes: With the US and other major countries poised to begin national distribution of multiple FDA-approved COVID-19 vaccines, the cybersecurity threats to secure COVID19 vaccine

distribution is imminent. Earlier this month, IBM released a report on malicious cyber actors targeting the COVID-19 cold chain—an integral part of delivering and storing a vaccine at safe temperatures.

Impersonating a biomedical company, cyber actors are sending phishing and spear-phishing emails to executives and global organizations involved in vaccine storage and transport to harvest account credentials. The emails have been posed as requests for quotations for participation in a vaccine program. In the report, IBM urges companies in the COVID-19 supply chain — from research of therapies, healthcare delivery to the distribution of a vaccine — to be vigilant and remain on high alert during this time

We recently sat down with Nigel Thorpe, Technical Director, SecureAge, an enterprise data security and encryption company to talk about the cybersecurity risks involved with COVID-19 vaccine distribution. [...]

23 In new guidelines, Interpol warns of fake vaccines, COVID-19 infected letters

Publication date	2020-11-19
Create date	2020-11-23
Score	16.14
Report id	811551
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: In new guidelines, Interpol warns of fake vaccines, COVID-19 infected letters THE WEEK

Click here to see the [Original Article](#)

Table 58: Drugs for report 811551

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 59: Other Stories

ID	Title	Link
837089	Interpol warns of fake COVID-19 vaccine and other crimes	Link

Notes: [...] The agency also notes the increased presence of fake and counterfeit medical products including face masks, hand sanitisers and even vaccines.

”High demand combined with a limited supply will make COVID-19 vaccines the equivalent of liquid gold to organized crime networks as soon as one is available,” Jürgen Stock, Interpol Secretary-General said, calling for immediate action to both protect the legitimate supply chain for when the vaccine is ready and to prevent the production and distribution of fake COVID-19 vaccines.

24 Doctors and police forces issue joint warning over fake Covid-19 vaccine fraudsters

Publication date	2021-01-15
Create date	2021-01-18
Score	16.10
Report id	894025
Category	Vaccine
Quality	Substandard
Source	Street vendors
Curation	Manually curated
Incident or General	General

Snippet: Doctors and police forces issue joint warning over fake Covid-19 vaccine fraudsters
MSN UK

Click here to see the [Original Article](#)

Table 60: Places for report 894025

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	England	52.16045	-0.70312

Table 61: Drugs for report 894025

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 62: Other Stories

ID	Title	Link
894582	Covid news: Public warned amid rising vaccine fraud - 'Jab should be free!'	Link
897658	NHS issues Covid-19 vaccine scam warning	Link

Notes: [...] "We know how excited people are to get the vaccine when it's their turn to do so, but sadly we're seeing that excitement is also bringing out the cheats, crooks and con people looking to make money from this life-saving programme.

”Remember, the vaccine will always be free on the NHS. Our staff will never ask for, or accept, cash for vaccines, never ask for your banking details or identity documents, and will never come around to your house unannounced.”

As of January 10, Action Fraud had received 65 reports in relation to coronavirus vaccines.

During the vaccine rollout, the NHS says it will never ask for bank account or card details, a banking PIN or password, and never ask individuals to prove their identity by sending copies of personal documents such as a passport, driving licence, bills or payslips. [...]

25 Warning: Cybercriminals are targeting COVID-19 vaccines and distribution

Publication date	2020-12-29
Create date	2021-01-25
Score	15.99
Report id	907362
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Warning: Cybercriminals are targeting COVID-19 vaccines and distribution SiliconANGLE News

Click here to see the [Original Article](#)

Table 63: Places for report 907362

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 64: Drugs for report 907362

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The U.S. Department of Treasury Financial Crimes Enforcement Network has issued a warning to financial institutions to be alert to the threat of fraud, ransomware and other types of criminal activity targeting COVID-19 vaccines and their distribution.

The warning, issued Monday, states that COVID-19 vaccine fraud may include the sale of unapproved and illegally marketed vaccines, counterfeit versions of approved vaccines and the illegal diversion of legitimate vaccines. FinCEN claims that fraudsters are already offering to provide potential victims with a vaccine sooner than otherwise available for a fee.

Ransomware is specifically mentioned. The notice says operators will continue to exploit the COVID-19 pandemic, stating that there are current ransomware campaigns directly targeting vaccine research. FinCEN notes that it's likely that similar attacks could be launched to disrupt the vaccine supply chain and delivery operations. [...]

26 AG Nessel warning of scammers offering fake COVID-19 vaccines

Publication date	2020-12-07
Create date	2020-12-08
Score	15.99
Report id	835384
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: AG Nessel warning of scammers offering fake COVID-19 vaccines WXYZ

Click here to see the [Original Article](#)

Table 65: Places for report 835384

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Michigan	44.25029	-85.50033

Table 66: Drugs for report 835384

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 67: Other Stories

ID	Title	Link
844825	COVID-19 Scams Likely to Increase as Vaccine Nears	Link
847975	4 types of COVID-19 vaccine scams circulating in Michigan and how they work	Link
845996	AG Nessel warning of scammers offering fake COVID-19 vaccines	Link
843724	Scams likely to heat up after COVID-19 vaccine roll-out	Link
922084	AG Nessel warns about law enforcement officer scams	Link

Notes: Attorney General Dana Nessel issued an urgent consumer alert to Michigan residents warning them of COVID-19-related scams. [...] Nessel is urging residents to avoid false claims, products and services that promise to cure, treat or prevent COVID-19. Vaccines, treatments, test kits and clinical trials are all examples of what scammers may be offering. [...]

27 IRS warns of COVID-19 scams related to stimulus payments

Publication date	2021-01-14
Create date	2021-01-15
Score	15.96
Report id	891753
Category	Vaccine, Medical device for screening/diagnosis/monitoring, Other
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: IRS warns of COVID-19 scams related to stimulus payments WDBJ

Click here to see the [Original Article](#)

Table 68: Places for report 891753

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Washington	37.13054	-113.50829

Table 69: Drugs for report 891753

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The IRS is warning taxpayers about a new wave of COVID-19-related scams as the second round of Economic Impact Payments are being distributed. [...] The sale of fake at-home COVID-19 tests, along with offers to sell fake cures, vaccines, pills and professional medical advice regarding unproven COVID-19 treatments. [...]

28 Coronavirus vaccine warning: Criminal gangs preparing to steal jab - 'It's liquid gold'

Publication date	2020-12-05
Create date	2020-12-08
Score	15.95
Report id	832466
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Coronavirus vaccine warning: Criminal gangs preparing to steal jab - 'It's liquid gold'
Express

Click here to see the [Original Article](#)

Table 70: Places for report 832466

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	United Kingdom of Great Britain and Northern Ireland	54.75844	-2.69531

Table 71: Drugs for report 832466

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 72: Other Stories

ID	Title	Link
835378	BEWARE: Fake Coronavirus Vaccines An 'Emerging Threat', Warns UK Crime Agency Boss	Link

Notes: [...]But storage facilities have been kept secret amid mounting fears the "liquid gold" vaccine will attract criminal gangs.

Jurgen Stock, secretary-general of Interpol, warned: "As governments are preparing to roll out vaccines, criminal organisations are planning to infiltrate or disrupt supply chains. "It is essential that law enforcement is as prepared as possible for what will be an onslaught of all types of criminal activity linked to the COVID-19 vaccine." [...]

29 Angola: Minister Warns Against Fake Covid-19 Vaccines

Publication date	2020-12-08
Create date	2020-12-10
Score	15.92
Report id	836086
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Angola: Minister Warns Against Fake Covid-19 Vaccines AllAfrica.com

Click here to see the [Original Article](#)

Table 73: Places for report 836086

Region Name	Country	Location	Latitude	Longitude
Central Africa	Angola	Republic of Angola	-12.5	18.5

Table 74: Drugs for report 836086

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Angolan Health minister Silvia Lutucuta, Monday warned the population to remain alert against fake Covid-19 vaccines in the country.

The government official, who was speaking to the press at the end of a meeting of the multisectoral commission against Covid-19, stressed the need for the population not to be fooled and denounced attempts to introduce false vaccines in the country.

According to Silvia Lutucuta, the health authorities will pass on all information on the vaccination process as soon as the country receives the vaccines authorised and certified by the WHO. [...]

30 Fake Covid-19 Vaccines: What to Know About Counterfeit Shots Sold Online

Publication date	2021-01-15
Create date	2021-01-18
Score	15.92
Report id	892904
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Fake Covid-19 Vaccines: What to Know About Counterfeit Shots Sold Online Yahoo Finance

Click here to see the [Original Article](#)

Table 75: Places for report 892904

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 76: Drugs for report 892904

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 77: Other Stories

ID	Title	Link
893289	Fake Covid-19 Vaccines: What to Know About Counterfeit Shots	Link

Notes: [...] As Covid-19 vaccines roll out in several countries, counterfeits are being marketed online. WSJ explains how phony vaccines end up on the internet and the risks for people who buy them. [...] Video news item

31 FBI: Scammers are selling fake COVID-19 vaccines online

Publication date	2021-01-18
Create date	2021-01-19
Score	15.87
Report id	898068
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: FBI: Scammers are selling fake COVID-19 vaccines online WDIV ClickOnDetroit

Click here to see the [Original Article](#)

Table 78: Places for report 898068

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Detroit	42.33143	-83.04575

Table 79: Drugs for report 898068

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 80: Other Stories

ID	Title	Link
898069	Fake COVID-19 vaccines being sold online	Link

Notes: The Federal Bureau of Investigation (FBI) is putting out a warning to protect consumers from scammers who are preying on people's fears during the COVID-19 pandemic.

There have been reports of fake COVID-19 test kits and now there are fake vaccines being sold online. Thieves want more than just your money, they want your personal money.

32 Avoid COVID-19 vaccines from black market, doctors warn

Publication date	2021-02-08
Create date	2021-02-09
Score	15.82
Report id	930157
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Avoid COVID-19 vaccines from black market, doctors warn INQUIRER.net

Click here to see the [Original Article](#)

Table 81: Places for report 930157

Region Name	Country	Location	Latitude	Longitude
South-Eastern Asia	Philippines	Republic of the Philippines	13	122

Table 82: Drugs for report 930157

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The sale of COVID-19 vaccines outside the government inoculation program feeds on the fear of not enough supplies arriving, prompting a group of doctors to warn the public against illegally sourced or counterfeit drugs.

Dr. Antonio Dans of the Healthcare Professionals Alliance Against Covid-19 (HPAAC) said the illegal sale of vaccines recently emerged in online chat groups, workplaces, and even in neighborhoods across Metro Manila. [...]

33 The COVID-19 vaccine's logistics will be targeted. Vet the supply chain.

Publication date	2020-11-24
Create date	2020-12-08
Score	15.82
Report id	816574
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: The COVID-19 vaccine's logistics will be targeted. Vet the supply chain. Supply Chain Dive

Click here to see the [Original Article](#)

Table 83: Places for report 816574

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 84: Drugs for report 816574

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The arrival and distribution of a COVID-19 vaccine will not be that dissimilar to a new smartphone launch: A significant event that is marked by limited supply with increased product demand, potentially creating a gray market for supplies, particularly in countries with high rates of cargo theft. [...] We know that these black and gray markets — facilitated by fake wholesalers and organized theft rings — already exist for oncology, arthritis and other drugs that don't seem like obvious targets. So, they will likely exist for a COVID-19 vaccine. With shortages also come an ongoing risk of counterfeiting, contamination, other quality issues, price-gouging and the targeting of such products by thieves. [...]

34 Interpol Warns Fake COVID-19 Vaccines May Pop Up Online

Publication date	2020-12-07
Create date	2020-12-08
Score	15.81
Report id	835660
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Interpol Warns Fake COVID-19 Vaccines May Pop Up Online Healthline

Click here to see the [Original Article](#)

Table 85: Places for report 835660

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 86: Drugs for report 835660

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 87: Other Stories

ID	Title	Link
850506	Interpol warns of online scams offering fake Covid-19 vaccines, treatments	Link
838498	Interpol warns of online scams offering fake Covid-19 vaccines, treatments	Link
863597	Officials warn of fake COVID-19 vaccines sold online amid impending rollout	Link
851411	A look at the dark web's coronavirus vaccine market. : The Indicator from Planet Money	Link

Notes: The top international law enforcement agency, Interpol, released a warning last week stating that organized crime networks may try to scam people into buying fraudulent COVID-19 vaccines. Interpol also expressed concern that criminal organizations could attempt to interrupt the supply chain and steal legitimate doses of the vaccine. The pandemic has presented a ripe opportunity for making and selling fraudulent products that claim to prevent and cure COVID-19. [...] Interpol suspects much of the misinformation regarding fraudulent vaccines will take place online.

The real vaccine won't be distributed online, so avoid circumventing the process for what may seem like early access to the shot. [...]

35 U.S. Customs has seized millions of counterfeit N95 face masks. Here's how to spot a fake.

Publication date	2021-02-05
Create date	2021-02-08
Score	15.81
Report id	925693
Category	Anti-malarial, Vaccine, Medical devices for disease prevention
Quality	Old News
Source	Other
Curation	Manually curated
Incident or General	General

Snippet: U.S. Customs has seized millions of counterfeit N95 face masks. Here's how to spot a fake. CBS News

Click here to see the [Original Article](#)

Table 88: Places for report 925693

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 89: Drugs for report 925693

Medicine Name	Medicine Class	Action	ATC Code
chloroquine	Aminoquinolines	antimalarials	P01BA01
			J07

Table 90: Other Stories

ID	Title	Link
926720	Fake N95 masks have flooded the market. Here's how to tell the difference - Local News 8	Link
925964	US Customs has seized millions of counterfeit N95s; here's how to spot a fake.	Link
928782	US Customs Has Seized Millions Of Counterfeit N95s	Link
926536	Fake N95 masks have flooded the market. Here's how to tell the difference	Link

Table 90: Other Stories(continued)

ID	Title	Link
928430	U.S. Customs has seized millions of counterfeit N95s. Here's how to spot a fake.	Link

Notes: U.S. Customs and Border Protection officers have seized nearly 15 million counterfeit face masks since the beginning of the coronavirus pandemic, the agency reported Thursday. Agents confiscated the unsafe personal protective equipment as part of an effort to prevent criminals from exploiting the public crisis for economic gain.

The agency also seized roughly 180,000 prohibited COVID-19 test kits and more than 38,000 prohibited chloroquine tablets typically used to treat malaria. Chloroquine is considered safe for patients with malaria, but has not been shown to be an effective treatment for COVID-19. [...]

36 Drug admin asked to prevent fake COVID-19 vaccine

Publication date	2021-01-24
Create date	2021-01-25
Score	15.67
Report id	906293
Category	Vaccine, Medical devices for disease prevention
Quality	Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: Drug admin asked to prevent fake COVID-19 vaccine newagebd.net

Click here to see the [Original Article](#)

Table 91: Places for report 906293

Region Name	Country	Location	Latitude	Longitude
Southern Asia	Bangladesh	Bangladesh	24	90

Table 92: Drugs for report 906293

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The health ministry on Sunday informed the parliamentary standing committee on the ministry that it ordered the Directorate General of Drug Administration to take necessary steps to prevent fake COVID-19 vaccines.

The ministry informed the matter to the parliamentary body at its eighth meeting held at Jatiya Sangsad Bhavan, a member of the committee told New Age.

Earlier, huge corruption and irregularities were detected in procurement of life saving equipment's for health service providers engaged in providing treatments to COVID-19 patients.

Law enforcement agencies have also uncovered incidents of forgery in COVID-19 tests besides the supply of substandard and fake N-95 masks and PPEs. [...]

37 Advisory - Health Canada warns Canadians not to buy COVID-19 vaccines sold online or from unauthorized sources

Publication date	2020-12-16
Create date	2020-12-22
Score	15.59
Report id	849570
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Advisory - Health Canada warns Canadians not to buy COVID-19 vaccines sold online or from unauthorized sources Canada NewsWire

Click here to see the [Original Article](#)

Table 93: Places for report 849570

Region Name	Country	Location	Latitude	Longitude
Americas	Canada	Canada	60.10867	-113.64258

Table 94: Drugs for report 849570

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 95: Other Stories

ID	Title	Link
859686	Health Canada warning: Do not buy counterfeit COVID-19 vaccines	Link
889906	Police, Health Canada warn of counterfeit COVID-19 vaccine	Link
849722	Health Canada warns of counterfeit COVID-19 vaccines sold online	Link
850747	Watch For Bogus Online COVID Vaccines	Link
851266	Health Canada warning: Do not buy counterfeit COVID-19 vaccines	Link

Table 95: Other Stories(continued)

ID	Title	Link
851550	Health Canada warns private buyers about counterfeit vaccine dangers	Link
911458	Health Canada warns that COVID-19 vaccines sold online could do more harm than good – Barrie 360	Link
851081	COVID-19 vaccine: Do not buy counterfeit doses, Health Canada warns	Link
849821	COVID-19 Update: 1,270 new cases, 16 deaths Health Canada warns of counterfeit vaccines sold online	Link
859299	Health Canada warns private buyers about counterfeit vaccine dangers	Link
850864	COVID-19 Update: Province to expand rapid testing program 1,270 new cases, 16 deaths Health Canada warns of counterfeit vaccines sold online	Link
867523	COVID-19: Officials warn of online scams advertising vaccine for sale	Link
880628	Health Canada issues counterfeit COVID-19 vaccine advisory	Link

Notes: [...] On December 9, 2020, Health Canada authorized the first vaccine in Canada for the prevention of COVID-19. Health Canada evaluates the safety, efficacy and quality of any drug or vaccine before it can be legally sold in Canada and all vaccines require specific storage conditions in order to maintain their quality. COVID-19 vaccines have a tightly-controlled supply chain, and will only be provided through clinics organized or endorsed by your local public health authority. COVID-19 vaccines are being offered free of charge to all Canadians. Selling counterfeit drugs or vaccines is a criminal activity that poses serious risks to the health and safety of Canadians. Health Canada takes this issue seriously and is working with international partners and other government departments and agencies, such as the Canada Border Services Agency (CBSA), to help protect Canadians. The International Criminal Police Organization, INTERPOL, has issued a global alert to law enforcement across its 194 member countries warning them of this issue. [...]

38 LA City Attorney Warns Residents Of COVID-19 Vaccine Scams

Publication date	2020-12-16
Create date	2020-12-22
Score	15.54
Report id	849572
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: LA City Attorney Warns Residents Of COVID-19 Vaccine Scams CBS Los Angeles

Click here to see the [Original Article](#)

Table 96: Places for report 849572

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Anaheim	33.83529	-117.9145
Americas	United States	Los Angeles	34.05223	-118.24368
Americas	United States	Pasadena	34.14778	-118.14452

Table 97: Drugs for report 849572

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 98: Other Stories

ID	Title	Link
851177	With COVID-19 vaccines rolling out, L.A. City Attorney warns: 'Don't pay for the promise of access to the vaccine'	Link

Notes: LOS ANGELES (CBSLA) — City Attorney Mike Feuer Wednesday warned Los Angeles residents to beware of COVID-19 vaccine scams.

Feuer said although the first COVID-19 vaccines are being administered by Pfizer, they are not yet available to all.

People should beware of texts or calls or house visits from people claiming they have a vaccine or can give people early access to an inoculation, he said.

"While this is terrific news, the vaccine won't be available on a widespread basis until spring or early summer," Feuer said. "In the meantime, that means there will be a wait, and that wait is surely an opportunity for scammers to try to sell you fake vaccines that are ineffective at best and dangerous at worst." [...]

39 Opinion: The unspoken COVID-19 vaccine challenges — distribution and corruption

Publication date	2020-11-10
Create date	2020-12-08
Score	15.52
Report id	799629
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Opinion: The unspoken COVID-19 vaccine challenges — distribution and corruption
Devex

Click here to see the [Original Article](#)

Table 99: Places for report 799629

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 100: Drugs for report 799629

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] Whilst most vaccines have little street value, initial limited supplies of a COVID-19 vaccine — compounded by a likely high demand from anxious populations — will make it a target for theft and diversion.

Many countries lack what the World Health Organization considers to be well-functioning and integrated medicines regulatory systems, making it more likely that substandard and falsified vaccines will appear on the market. The impact of these could be devastating, fueling skepticism and distrust, worsening the pandemic, and ultimately costing lives. [...]

40 BBB Scam Alert: A COVID-19 vaccine is on the way, so are scams

Publication date	2020-12-04
Create date	2020-12-08
Score	15.47
Report id	832881
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: BBB Scam Alert: A COVID-19 vaccine is on the way, so are scams KVOA Tucson News

Click here to see the [Original Article](#)

Table 101: Places for report 832881

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 102: Drugs for report 832881

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 103: Other Stories

ID	Title	Link
845063	Consumer advocates expect COVID-19 vaccine scams in coming weeks	Link
912140	BBB Alert: A COVID-19 Vaccine is Available, so Scams May Follow – WKTN	Link
846351	How to Spot a COVID-19 Vaccine Con, According to the BBB	Link
850705	Scam Alert: Fake COVID-19 vaccines, online puppy sales, and more	Link

Table 103: Other Stories(continued)

ID	Title	Link
850962	Scammers offering fake, early COVID-19 vaccine access: public health officials TheHill	Link
837145	Better Business Bureau warning people of potential COVID-19 vaccine scams	Link
867367	Up next: COVID-19 vaccination scams	Link
852521	Health, consumer experts warn of fraudulent COVID-19 tests	Link
838442	SCAM ALERT: BBB warns Americans about fake COVID-19 vaccine scams	Link
848185	First came news of a vaccine. Now come the scams.	Link
848186	Arrival of COVID-19 vaccine brings new warnings about pandemic scams	Link
864828	BBB CONSUMER TIPS: A COVID-19 vaccine is on the way. So are the scams	Link
846140	SCAM ALERT: BBB warns Americans about fake COVID-19 vaccine scams	Link
845120	COVID vaccine scams: Better Business Bureau warns of scammers exploiting consumers	Link
849988	How to avoid COVID-19 vaccine schemes	Link
851269	BBB warns of COVID-related and holiday scams	Link
850759	Scam Alert: Fake COVID-19 vaccines, online puppy sales, and more - WGN Radio	Link
835913	COVID-19 vaccine scams at center of new crime-fighting effort	Link
833110	BBB Scam Alert: A COVID-19 vaccine is on the way. So are the scams.	Link
849500	BBB Scam Alert: A COVID-19 Vaccine is on the Way and So are the Scams.	Link
844893	VOICES: Beware of COVID-19 vaccine scams	Link
853086	Avoid the Scam: COVID-19 Vaccines Offer Scammers a Shot at Consumers	Link
842595	BBB warns against fake COVID-19 vaccine scams	Link
845156	COVID vaccine scams: Better Business Bureau warns of fake vaccines, early access to doses, exploiting consumers	Link
836971	BBB Reports Fake Coronavirus Vaccine Scam 1290 WJNO Florida News	Link
849520	Protect yourself from COVID vaccine scams	Link
851316	BBB warns not to fall for COVID-19 vaccine scams	Link
881015	COVID-19 scams: Cybersecurity experts warn of coronavirus vaccine scams sent by text, email	Link
848256	Scammers taking advantage of news of COVID vaccine. Here's what to watch out for	Link
844930	Better Business Bureau warning people of potential COVID-19 vaccine scams	Link

Table 103: Other Stories(continued)

ID	Title	Link
844679	Straight Talk: A COVID-19 vaccine is on the way. So are the scams.	Link
861580	BBB Scam Alert: A COVID-19 vaccine is on the way. So are the scams.	Link
854413	COVID-19 vaccines are on the way....But so are scams	Link
837266	BBB Scam Alert: Watch Out for COVID-19 Vaccine Scams	Link
845971	Scam alert: Watch out for fake Covid vaccine sales	Link
854168	As COVID-19 vaccines rollout, BBB warns of scams	Link
846495	Consumer Alert: As Covid-19 vaccines roll out, BBB warns consumers about fake vaccine sales	Link
848038	Better Business Bureau warns of COVID-19 fake vaccine scams	Link
853420	Be mindful of COVID-19 vaccine scams	Link
851636	Scammers start using COVID-19 vaccine to target people	Link
856503	DEFENDERS: Look out for scammers selling fake vaccines	Link
866237	BBB: A COVID-19 vaccine is on the way — so are the scams	Link
847805	BBB Scam Alert: Consumers Should Prepare for Scams Ahead of COVID-19 Vaccine	Link
849597	BBB Scam Alert: A COVID-19 vaccine is on the way. So are the scams.	Link
868036	County warns of scams as vaccine distribution plans take shape	Link
851410	BBB: Beware fake COVID-19 vaccine scams trying to steal your money	Link
867539	Vaccination Scammers Stealing Personal Info	Link
835803	Post from Community: BBB Scam Alert: Watch out for COVID-19 vaccine scams	Link
838878	BBB warns about scams related to COVID vaccines The Henrico Citizen	Link
847326	Better Business Bureau: A COVID-19 vaccine is on the way. So are the scams.	Link
855013	Better Business Bureau warning people of potential COVID-19 vaccine scams	Link
848109	How to protect yourself from a COVID-19 vaccine scam	Link

Notes: On Friday, the Better Business Bureau (BBB) issued a warning about the potential for scams related to the soon-to-be-released COVID-19. "Government officials have already been cracking down on phony COVID testing kits and treatments," the BBB said in a news release. "Now, they are ramping up efforts to prevent the sale of fake vaccines."

Selling fake vaccines and other treatments are likely only one of many ways scammers will try to cash in on the vaccine release. [...]

41 Don't be fooled by counterfeit COVID-19 vaccines

Publication date	2021-01-08
Create date	2021-02-03
Score	15.43
Report id	918701
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Don't be fooled by counterfeit COVID-19 vaccines San Diego Downtown News

Click here to see the [Original Article](#)

Table 104: Places for report 918701

Region Name	Country	Location	Latitude	Longitude
Americas	United States	San Diego	32.71533	-117.15726

Table 105: Drugs for report 918701

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] By now, we know that unscrupulous scammers are always waiting for their next opportunity and the COVID-19 vaccine is no different. Already bad actors have been counterfeiting pharmaceutical company logos for many years and will likely quickly move into producing a look-alike vaccine for sale through already established illicit supply chains.

Keep these tips in mind to avoid falling for a counterfeit vaccine:

Fake vaccines may appear early and look genuine. [...]

42 Fake COVID-19 vaccines in circulation, NAFDAC warns

Publication date	2021-01-15
Create date	2021-01-18
Score	15.42
Report id	892876
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Fake COVID-19 vaccines in circulation, NAFDAC warns Vanguard

Click here to see the [Original Article](#)

Table 106: Places for report 892876

Region Name	Country	Location	Latitude	Longitude
Western Africa	Nigeria	Federal Republic of Nigeria	10	8

Table 107: Drugs for report 892876

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 108: Other Stories

ID	Title	Link
893443	Nigeria warns against fake COVID vaccines	Link
893968	COVID-19: Fake vaccines in circulation, NAFDAC warns	Link
892955	NAFDAC Raises the Alarm over Fake COVID-19 Vaccine in Nigeria	Link
907879	Nigeria: Coronavirus - NCDC Publishes New Guidance On Use of Approved Rapid Diagnostic Test Kits	Link
893291	Coronavirus vaccine: NAFDAC declare say fake Covid- 19 vaccine don dey Nigeria	Link

Table 108: Other Stories(continued)

ID	Title	Link
904604	Nigeria warns against "fake vaccines" as 10m doses expected in March	Link
893342	Nigeria warns public against fake coronavirus vaccine	Link
894148	Nigeria: Fake Covid-19 Vaccines in Circulation, NAFDAC Warns	Link
893149	Nigeria warns against "fake vaccines" as 10 mn doses expected in March	Link
894437	Nigeria warns of reported fake COVID-19 vaccines	Link

Notes: [...] Disclosing these during a virtual press conference, the Director-General of the Agency, Prof Mojisola Christianah Adeyeye, said "Covid-19 vaccines are new, and the side effects or adverse events must be well monitored, therefore, if NAFDAC does not approve, the public should not use."

"There are reports of fake vaccines in Nigeria. NAFDAC is pleading with the public to beware. No Covid Vaccines have been approved by NAFDAC. Fake vaccines can cause Covid-like illnesses or other serious diseases that could kill. [...]"

43 FinCEN Issues Warning About COVID-19 Vaccine Scams, Cyberattacks

Publication date	2020-12-28
Create date	2020-12-29
Score	15.37
Report id	866239
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: FinCEN Issues Warning About COVID-19 Vaccine Scams, Cyberattacks pymnts.com

Click here to see the [Original Article](#)

Table 109: Places for report 866239

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 110: Other Stories

ID	Title	Link
868943	FinCEN: Beware Scams Related to COVID-19 Vaccines	Link
872791	FinCEN Warns Financial Institutions About Scams and Cyber-Attacks Relating to COVID-19 Vaccines	Link
869557	New warning issued over COVID-19 vaccine fraud, cyberattacks	Link
866262	Treasury Warns Banks of Covid-19 Vaccine Fraud	Link

Notes: As the distribution of the COVID-19 vaccine continues to roll out to medical workers and high-risk populations, the Financial Crimes Enforcement Network (FinCEN) is asking financial institutions to be extra vigilant when it comes to cybersecurity.

”Already, fraudsters have offered, for a fee, to provide potential victims with the vaccine sooner than permitted under the applicable vaccine distribution plan,” FinCEN said in a statement on Monday (Dec. 28).

”In addition, cybercriminals, including ransomware operators, will continue to exploit the COVID-19 pandemic alongside legitimate efforts to develop, distribute, and administer vaccines,” according to the agency.

There have already been ransomware attacks aimed at medical research facilities working on vaccinations. FinCEN said similar attacks could be launched to disrupt the vaccine supply chain and delivery operations.

Further, FinCEN said phishing schemes could surface targeting people with fraudulent vaccine information, the sale of unapproved and illegally marketed vaccines and the sale of counterfeit versions of approved vaccines.

44 Experts express need for traceability of COVID-19 vaccines

Publication date	2020-11-26
Create date	2020-11-27
Score	15.34
Report id	819767
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Experts express need for traceability of COVID-19 vaccines Express Pharma

Click here to see the [Original Article](#)

Table 111: Places for report 819767

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 112: Drugs for report 819767

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Industry experts have urged the government bodies to consider the need to incorporate an end-to-end traceability mechanism on all COVID-19 vaccines. They reason that it is the need of the hour to build a supply chain that has visibility and enhanced effectiveness to ensure that the largest feasible portion of India's population benefits from the initial limited supplies. Experts are suggesting that the government makes it mandatory for vaccine manufacturers to implement serial numbers, bar codes and a systems driven end-to-end traceability and tracking system, which will monitor the distribution channel, quality of drug, patient safety, counterfeiting etc. [...]

45 Private investigators' body APDI forms global alliance against fake Covid-19 vaccines

Publication date	2021-01-07
Create date	2021-01-08
Score	15.32
Report id	880319
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Private investigators' body APDI forms global alliance against fake Covid-19 vaccines
ETHealthworld.com

Click here to see the [Original Article](#)

Table 113: Drugs for report 880319

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 114: Other Stories

ID	Title	Link
880332	Private investigators' body APDI forms global alliance against fake COVID-19 vaccines	Link

Notes: As India gears up for a massive Covid-19 vaccination drive, private investigators' body APDI has formed an international alliance to check the circulation of fake vaccines. An initiative of Delhi-based Association of Private Detectives and Investigators (APDI), the Global Alliance Against Fake Vaccine (GAFV) has been formed comprising professional investigators from 16 countries, while more are likely to join this international campaign initiated from India.

APDI Chairman Kunwar Vikram Singh in a statement said, "The GAFV has been formed after reports emanating from several countries about the circulation of fake Covid vaccines. Already, Europol, the European Union's law enforcement agency, has issued a warning of fake vaccine circulation due to huge demands." [...]

46 Health Canada issues counterfeit COVID-19 vaccine advisory | Bancroft this Week

Publication date	2021-01-06
Create date	
Score	15.29
Report id	917847
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Health Canada issues counterfeit COVID-19 vaccine advisory | Bancroft this Week
Bancroft This Week

Click here to see the [Original Article](#)

Table 115: Places for report 917847

Region Name	Country	Location	Latitude	Longitude
Americas	Canada	Bancroft	45.05752	-77.85702

Table 116: Drugs for report 917847

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes:

47 Interpol targets criminal gangs selling fake COVID-19 vaccines

Publication date	2021-01-15
Create date	2021-01-18
Score	15.28
Report id	893535
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Interpol targets criminal gangs selling fake COVID-19 vaccines CGTN

Click here to see the [Original Article](#)

Table 117: Places for report 893535

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 118: Drugs for report 893535

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] Europol, which is based in The Hague, stated that dark web markets had already begun featuring advertisements for fake COVID-19 vaccines "using the brands of genuine pharmaceutical companies," and warned that these adverts would increase once officially-approved vaccines started to be widely rolled out.

The European law enforcement agency warned of the damage that could be caused by the distribution of illicit vaccines.

"Counterfeit COVID-19 vaccines may represent a significant public health threat if they are ineffective at best or toxic at worst, given their production in underground labs without hygiene standards," Europol's warning said.

Targeting supply chains

It also stated that there is a risk facing vaccine supply chains, which could be targeted by criminal groups. "Counterfeit vaccines may circulate on illicit markets or be introduced to the

legal market, as occurs regularly with other counterfeit pharmaceuticals,” the police agency said.

”For example, criminals may resort to illegally refilling empty vials. Therefore, procedures for the correct disposal of vials by grinding or incineration will have to be properly enforced.” [...]

48 Mitigating Risks To Global Distribution Of COVID-19 Vaccines And Therapeutics

Publication date	2020-11-20
Create date	
Score	15.14
Report id	811772
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Mitigating Risks To Global Distribution Of COVID-19 Vaccines And Therapeutics
BioProcess Online

Click here to see the [Original Article](#)

Table 119: Places for report 811772

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 120: Drugs for report 811772

Medicine Name	Medicine Class	Action	ATC Code
	Antivirals	chemotherapeutics for topical use	D06BB
	Antivirals	antiinfectives	S01AD
			J07

Notes:

49 Health Ministry urges public to avoid purchasing fake Covid-19 vaccines online

Publication date	2021-01-18
Create date	2021-01-19
Score	15.14
Report id	896816
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Health Ministry urges public to avoid purchasing fake Covid-19 vaccines online The Star Online

Click here to see the [Original Article](#)

Table 121: Places for report 896816

Region Name	Country	Location	Latitude	Longitude
South-Eastern Asia	Malaysia	Malaysia	2.5	112.5

Table 122: Drugs for report 896816

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The Health Ministry (MOH) has urged members of the public to avoid purchasing vaccines claimed to be able to prevent and treat Covid-19 that are offered by online sellers.

In a post uploaded on Facebook today (Jan 18), MOH said the vaccines that are being touted by sellers on the Internet are most likely counterfeits, unregistered, and may even contain unidentified components. As such, their quality, safety and effectiveness is not guaranteed by the Ministry.

The post also stated that sellers are not allowed to advertise vaccines claiming that they could prevent Covid-19 on all forms of media.

MOH added that advertising health-related products without approval from the Medicine Advertisement Board is an offence under Section 4B of the Medicines Act (Advertisement and

Sale) 1956. If convicted, offenders face a fine of no more than RM3,000 or a one-year prison sentence, or both. [...]

50 Experts Warn of COVID-19 Vaccine Scams

Publication date	2020-12-09
Create date	2020-12-11
Score	15.11
Report id	837701
Category	Vaccine, Medical device for screening/diagnosis/monitoring
Quality	Falsified
Source	Unlicensed outlets
Curation	Manually curated
Incident or General	General

Snippet: Experts Warn of COVID-19 Vaccine Scams NBC San Diego

Click here to see the [Original Article](#)

Table 123: Places for report 837701

Region Name	Country	Location	Latitude	Longitude
Americas	United States	San Diego	32.71533	-117.15726

Table 124: Drugs for report 837701

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 125: Other Stories

ID	Title	Link
849154	Officials warn of fake COVID-19 vaccines sold online amid impending rollout	Link
849422	Beware of scams related to the COVID-19 vaccine, experts warn	Link
846402	As COVID-19 vaccine begins shipping, experts warn of fake vaccines, treatments	Link
852590	Ask the Expert: Counterfeit products and COVID-19	Link
885201	Coming to a black market near you: Covid-19 vaccine	Link
842196	Officials warn of fake COVID-19 vaccines sold online amid impending rollout	Link

Notes: With the rollout of the COVID-19 vaccine possibly just days away, experts are warning everyone to beware of vaccine scams that could be dangerous to your health.

Researchers at the UC San Diego School of Medicine found that fake COVID-19 claims have come in waves, starting in March with claims of cures and fake testing kits.

Now, they're seeing a plethora of fake vaccine posts. [...] Mackey is the lead author of a study released in August that shows an increase in posts tied to financial scams, possible counterfeit goods and unapproved treatments. Now, he's seeing a wave of fake vaccines.

Most times, according to Mackey, they're just trying to scam you out of your money, but if you do receive a fake vaccine, it could harm more than just your wallet. [...] But once the vaccine is released, Mackey warns there's also a need to ensure vials are properly disposed because they could be re-used for fake vaccine doses.

Then there's the black market danger.

"There's a lot of pharmaceutical companies that are worried about the security of their product, like people actually just reselling legitimate vaccines or maybe even reselling spoiled vaccines because so much of it is going to be temperature controlled," explained Mackey.

Experts say any vaccine you get should only be through a licensed medical professional, and most health departments will publish a list of approved COVID-19 vaccine providers.

51 Latest monitoring data confirms safety of COVID-19 vaccines

Publication date	2021-02-05
Create date	2021-02-08
Score	15.06
Report id	925789
Category	Vaccine
Quality	Not Directly Relevant
Source	Hospital pharmacy
Curation	Manually curated
Incident or General	General

Snippet: Latest monitoring data confirms safety of COVID-19 vaccines GOV.UK

Click here to see the [Original Article](#)

Table 126: Places for report 925789

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	London	51.50853	-0.12574

Table 127: Drugs for report 925789

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] Routine safety monitoring and analysis of the approved COVID-19 vaccines by the UK's medicines regulator, the Medicines and Healthcare products Regulatory Agency (MHRA), shows that the safety of these vaccines remains as high as expected from the clinical trial data that supported the approvals. The safety profile of the vaccines remains positive and the benefits continue to far outweigh any known side-effects.

Over 10 million doses of the Pfizer/BioNTech and the Oxford University/AstraZeneca vaccines have been given across the UK and the MHRA has gathered a large amount of safety data. [...]

52 Vaccine shortages led to problems in the past. Will it happen again with COVID-19?

Publication date	2020-12-07
Create date	2020-12-08
Score	14.90
Report id	834837
Category	Vaccine
Quality	Falsified
Source	Unlicensed outlets
Curation	Manually curated
Incident or General	General

Snippet: Vaccine shortages led to problems in the past. Will it happen again with COVID-19?
Chicago Tribune

Click here to see the [Original Article](#)

Table 128: Places for report 834837

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Chicago	41.85003	-87.65005

Table 129: Drugs for report 834837

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 130: Other Stories

ID	Title	Link
836630	Vaccine shortages have led to theft, smuggling and a free-for-all to get doses. Will it happen again with COVID-19?	Link
844614	Vaccine shortages have led to theft, smuggling and a free-for-all to get doses. Will it happen again with COVID-19?	Link

Notes: As America prepares to distribute another scarce vaccine, some are wary that history could repeat. Interpol is warning that criminals are scheming to intercept COVID-19 vaccines, and federal officials have raised concerns about counterfeit doses — the scenario that most worries Dr. Georges Benjamin, executive director of the American Public Health Association. "My biggest fear is not so much that too many celebrities will get it first," he said. "Tragically, that's going to happen. I just hope there's not a lot of it. My biggest fear is the black market and the false market. I'm concerned about people fraudulently selling vaccine and people being defrauded by (phony promises)." [...] The vaccines will travel through global supply chains, and Interpol, the international law enforcement agency, has warned that "high demand combined with a limited supply will make COVID-19 vaccines the equivalent of liquid gold to organized crime networks as soon as one is available."

U.S. Customs and Immigration Enforcement officials say they anticipate that criminals will also try to sell counterfeit vaccines to the unwary, possibly via social media ads, illicit websites or robocalls. [...]

53 SoCal Taxpayers Warned Of New Round Of COVID-19 Scams

Publication date	2021-01-25
Create date	2021-01-28
Score	14.88
Report id	909078
Category	Medical device for screening/diagnosis/monitoring, Medical devices for disease prevention
Quality	Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: SoCal Taxpayers Warned Of New Round Of COVID-19 Scams CBS Los Angeles

Click here to see the [Original Article](#)

Table 131: Places for report 909078

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Los Angeles	34.05223	-118.24368

Table 132: Drugs for report 909078

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] The IRS-Criminal Investigation Division has seen a variety of EIP scams and other financial schemes in the last several months designed to steal money and personal information from taxpayers. [...] the organized and unofficial sale of fake at-home COVID-19 test kits (as well as offers to sell fake cures, vaccines, pills and professional medical advice regarding unproven COVID-19 treatments); [...]

54 Dept. of Homeland Security working with drug companies to be prepared to spot 'fake' COVID-19 vaccines

Publication date	2020-11-30
Create date	2020-12-08
Score	14.82
Report id	826418
Category	Vaccine, Antiviral others, Medical devices for disease prevention
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Dept. of Homeland Security working with drug companies to be prepared to spot 'fake' COVID-19 vaccines KITV Honolulu

Click here to see the [Original Article](#)

Table 133: Places for report 826418

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Homeland	30.85637	-82.02264

Table 134: Drugs for report 826418

Medicine Name	Medicine Class	Action	ATC Code
	Antivirals	chemotherapeutics for topical use	D06BB
	Antivirals	antiinfectives	S01AD
			J07

Notes: Federal investigators warn criminals are waiting to use a COVID-19 vaccine to their advantage.

The Department of Homeland Security is working with drug companies to create a mass database of information on how the vaccine will be packaged.

The goal is to prepare them to spot fakes.

DHS is monitoring tens of thousands of web sites involved in some sort of COVID-related fraud. [...] Since April the government has seized millions of fake or unapproved personal protective equipment products and antiviral pharmaceuticals.

55 I-Team: Federal investigators warn of fake COVID-19 vaccine scams, counterfeit items - KLAS

Publication date	2020-12-15
Create date	
Score	14.73
Report id	846849
Category	Vaccine, Antiviral others, Medical devices for disease prevention
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: I-Team: Federal investigators warn of fake COVID-19 vaccine scams, counterfeit items
KLAS - 8 News Now

Click here to see the [Original Article](#)

Table 135: Places for report 846849

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Las Vegas	36.17497	-115.13722

Table 136: Drugs for report 846849

Medicine Name	Medicine Class	Action	ATC Code
silver	Silver compounds	antiseptics and disinfectants	D08AL30
			J07

Notes:

56 Pfizer-BioNtech COVID-19 vaccine data hacked in cyber-attack on European Medicines Agency

Publication date	2020-12-09
Create date	2020-12-11
Score	14.73
Report id	838653
Category	Vaccine
Quality	Falsified
Source	Other
Curation	Manually curated
Incident or General	General

Snippet: Pfizer-BioNtech COVID-19 vaccine data hacked in cyberattack on European Medicines Agency Republic World

Click here to see the [Original Article](#)

Table 137: Places for report 838653

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 138: Drugs for report 838653

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 139: Other Stories

ID	Title	Link
843802	EU drugs regulator confirms data breach in cyber attack	Link
838956	Pfizer/BioNTech vaccine docs hacked from European Medicines Agency	Link
838970	Hackers accessed vaccine documents in cyber-attack on EMA	Link
853580	EU drug regulator hacked, data on COVID-19 vaccine accessed	Link

Table 139: Other Stories(continued)

ID	Title	Link
846943	Hackers access documents related to authorized COVID-19 vaccines	Link
844384	Mafias are planning to develop fake Corona Vaccine	Link
841851	EU Vaccine Regulator Hacked for Pfizer/BioNTech Info	Link
839040	EU drug regulator hacked, data on COVID-19 vaccine accessed	Link
839305	Hackers access documents related to authorized COVID-19 vaccines	Link
929947	Hackers leak Moderna, Pfizer vaccine data stolen in EU cyberattack online	Link
920776	Hackers Leak Stolen Pfizer-BioNTech COVID-19 Vaccine Data	Link
841207	Hackers breach Pfizer/BioNTech COVID-19 vaccine data in cyberattack targeting EMA	Link

Notes: [...] The warning was issued after the European Medicines Agency (EMA) announced that it was set to conclude the evaluation of the first conditional marketing authorisation application for the vaccines. "Increased vigilance for criminal fraudulent activity is advised to all Member States," Europol said in a statement, stressing that criminals replacing genuine shots shipments with counterfeit vaccines. [...]

57 The Covid-19 vaccine is safe — and scarce. That makes it ripe for the black market.

Publication date	2020-12-17
Create date	2020-12-22
Score	14.72
Report id	850370
Category	Vaccine
Quality	Falsified
Source	Unlicensed outlets
Curation	Manually curated
Incident or General	General

Snippet: The Covid-19 vaccine is safe — and scarce. That makes it ripe for the black market.
NBCNews.com

Click here to see the [Original Article](#)

Table 140: Drugs for report 850370

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] If history is a guide, illicit markets for the Covid-19 vaccine are likely to develop to feed people who wish to jump the line or simply profit from trading in a valuable commodity. These illicit markets will, in turn, build the necessary motivation for criminal networks to steal and counterfeit the new vaccine. And the arrival of these illicit markets online — offering real or faked Covid vaccines — is as certain as receiving a spam call. It is, therefore, imperative that the rapid and early detection of illicit vaccine markets be prioritized by federal law enforcement in partnership with the vast array of cyberspace watchers in the National Security Agency. Unlike the past, these markets can be rapidly established on the dark net, operate globally using anonymous communications tools and rely on cryptocurrencies providing anonymity.

These dark markets are hard but not impossible to combat. Identifying and either shutting down these markets via technology or by destroying their credibility have been used to previous good effect. And in cases where uncooperative governments won't stop these markets, infiltrating them so no buyer or seller can be sure they aren't dealing with law enforcement has proven to be effective. [...]

58 Some Vials Of COVID-19 Vaccine Contain Extra Doses, Expanding Supply : NPR

Publication date	2020-12-17
Create date	2021-01-10
Score	14.71
Report id	879608
Category	Vaccine
Quality	Substandard
Source	Manufacturer
Curation	Manually curated
Incident or General	General

Snippet: Some Vials Of COVID-19 Vaccine Contain Extra Doses, Expanding Supply : NPR
TechnoCodex

Click here to see the [Original Article](#)

Table 141: Places for report 879608

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 142: Drugs for report 879608

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 143: Other Stories

ID	Title	Link
881387	Extra doses found in Pfizer's coronavirus vaccine	Link

Notes: The Food and Drug Administration has authorized health care workers to use extra doses of the Pfizer-BioNTech COVID-19 vaccine found in some of the vials that have been distributed throughout the country this week.

The agency issued the guidance Wednesday after health care workers reported throwing out the excess vaccine, fearing it would be against the rules to use it.

”At this time, given the public health emergency, FDA is advising that it is acceptable to use every full dose obtainable (the sixth, or possibly even a seventh) from each vial, pending resolution of the issue,” the FDA wrote in a tweet. As health care workers prepared for its arrival they expected to receive vials holding five doses. That left many surprised by the overfilled containers. [...]

59 Man charged with five offences around fake COVID-19 vaccine

Publication date	2021-01-15
Create date	2021-01-18
Score	14.54
Report id	894514
Category	Vaccine
Quality	Falsified
Source	Street vendors
Curation	Manually curated
Incident or General	General

Snippet: Man charged with five offences around fake COVID-19 vaccine The Crown Prosecution Service

Click here to see the [Original Article](#)

Table 144: Places for report 894514

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	London	51.50853	-0.12574

Notes: The Crown Prosecution Service has authorised City of London Police to charge David Chambers, 33, with five offences including fraud around the fake administration of a COVID-19 vaccine and common assault.

The CPS made the decision to charge Mr Chambers, after reviewing a file of evidence from the City of London police relating to allegations of fraud and misrepresentation.

We remind all concerned that criminal proceedings against Mr Chambers are now active and that he has a right a to fair trial. It is extremely important that there should be no reporting, commentary or sharing of information online which could in any way prejudice these proceedings. [...]

60 Using blockchain to monitor the COVID-19 vaccine supply chain

Publication date	2020-11-20
Create date	2020-12-08
Score	14.17
Report id	811709
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Using blockchain to monitor the COVID-19 vaccine supply chain World Economic Forum

Click here to see the [Original Article](#)

Table 145: Places for report 811709

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 146: Drugs for report 811709

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 147: Other Stories

ID	Title	Link
929741	How Are Blockchain and IoT Helping COVID Vaccine Shipments?	Link
836312	FDA Approval Is Not The Only Vaccine Challenge	Link

Notes: [...] The technology could solve some of the most stubborn challenges of standard supply chain management, such as participants' accountability, accuracy in tracking items, fighting potential counterfeits, complications in stock management and more. However, blockchain's

greatest advantage in this case would be the immutability of the storage conditions data. Given the vital importance of the storage temperature, vaccine distributors would be required to make sure that all storage conditions are met, but also to unequivocally prove that they were met. Ensuring that storage temperature data is recorded on an immutable database could provide this proof, removing beyond a shadow of the doubt that the vaccines are safe and effective. [...]

61 European Union police agency Europol warns against counterfeit COVID-19 vaccines, fraud

Publication date	2020-12-04
Create date	
Score	14.08
Report id	839166
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: European Union police agency Europol warns against counterfeit COVID-19 vaccines, fraud Republic World

Click here to see the [Original Article](#)

Table 148: Places for report 839166

Region Name	Country	Location	Latitude	Longitude
Southern Asia	Pakistan	Punjab	30.86017	72.31976
Southern Asia	India	State of Mahārāshtra	19.5	76
Eastern Africa	Ethiopia	Tigray Region	14.16667	38.83333

Table 149: Drugs for report 839166

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes:

62 Europol: Beware Fake Dark Web #COVID19 Vaccines

Publication date	2020-12-07
Create date	2020-12-08
Score	13.60
Report id	834774
Category	Vaccine
Quality	Falsified
Source	Website(s)
Curation	Manually curated
Incident or General	General

Snippet: Europol: Beware Fake Dark Web #COVID19 Vaccines Infosecurity Magazine

Click here to see the [Original Article](#)

Table 150: Places for report 834774

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	United Kingdom of Great Britain and Northern Ireland	54.75844	-2.69531

Table 151: Drugs for report 834774

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: As the UK begins preparations to deploy a COVID-19 vaccine, law enforcers are warning of counterfeit versions circulating on the dark web. [...] However, Europol warned on Friday that counterfeit versions are already starting to circulate on the dark web, as organized crime groups react to the surge in interest and demand from the public. These will be "ineffective at best or toxic at worst" and could lead to outbreaks of the virus among communities assumed to have been vaccinated, the police agency warned. "Counterfeit vaccines may circulate on illicit markets or be introduced to the legal market, as occurs regularly with other counterfeit pharmaceuticals. The expected high demand for COVID-19 vaccines will likely attract organized crime groups seeking to capitalize on the pandemic situation and subsequent vaccination campaigns," it explained. [...]

63 COVID-19 vaccine is bonanza for digital supply chain tracking industry - The Jakarta Post

Publication date	2020-12-17
Create date	2020-12-22
Score	13.37
Report id	850502
Category	Vaccine, Other
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: COVID-19 vaccine is bonanza for digital supply chain tracking industry - The Jakarta Post Jakarta Post

Click here to see the [Original Article](#)

Table 152: Places for report 850502

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 153: Drugs for report 850502

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 154: Other Stories

ID	Title	Link
850503	FOCUS-COVID vaccine is bonanza for digital supply chain tracking industry	Link
850536	COVID vaccine is bonanza for digital supply chain tracking industry	Link

Notes: [...]Cloudleaf, backed by Intel Capital, the venture arm of chipmaker Intel Corp, uses sensors attached to material containers to track the location, temperature, humidity, vibration

and acceleration. The sensors send data to the cloud, where an artificial intelligence algorithm can predict if action is needed to prevent a product from becoming exposed to temperatures outside the recommended range, known as excursions. [...] Moderna is using SAP's digital solutions to help serialize and distribute its vaccine. The applications are designed to prevent counterfeit medicines and enable collaboration with contract manufacturers and wholesalers. Similarly, Israeli startup Varcod, which makes smart tags that measure time and temperature, and can track and trace products throughout the supply chain, has seen a multifold jump in orders. [...]

64 Hontiveros tells BOC, PNP to be vigilant vs fake COVID vaccines

Publication date	2021-02-03
Create date	2021-02-05
Score	12.93
Report id	921872
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: Hontiveros tells BOC, PNP to be vigilant vs fake COVID vaccines INQUIRER.net

Click here to see the [Original Article](#)

Table 155: Places for report 921872

Region Name	Country	Location	Latitude	Longitude
South-Eastern Asia	Philippines	Manila	14.6042	120.9822

Table 156: Drugs for report 921872

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 157: Other Stories

ID	Title	Link
922700	Alert on smuggled fake vaccine up; EU assures PH of vax supply	Link
921951	Amid reported crackdown in China, PH authorities told to ensure no fake vaccines enter the country	Link
922497	EDITORIAL - Fake vaccines	Link
922027	Secure borders 'like bloodhounds' vs entry of fake COVID-19 jabs, authorities told	Link

Notes: Senator Risa Hontiveros on Wednesday reminded the Bureau of Customs and Philippine National Police to remain vigilant against fake COVID-19 vaccines that might enter the country. As per the Senate's official website, Hontiveros cited reports of Chinese authorities confiscating over 3,000 doses of fake vaccines, which were saline-filled syringes, that they suspected were made with the intent to send abroad. [...]

65 Senate Passes Enzi, Hassan Bill to Protect Against Counterfeit Medical Products

Publication date	2020-12-09
Create date	2020-12-11
Score	12.58
Report id	838957
Category	Vaccine, Medical device for screening/diagnosis/monitoring, Medical device used for cure/mitigation/treatment, Other
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Senate Passes Enzi, Hassan Bill to Protect Against Counterfeit Medical Products
Sheridan Media

Click here to see the [Original Article](#)

Table 158: Places for report 838957

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Wyoming	42.91336	-85.70531

Table 159: Drugs for report 838957

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 160: Other Stories

ID	Title	Link
839888	Senate passes Enzi, Hassan bill to protect against counterfeit medical products	Link

Notes: The U.S. Senate unanimously passed a bill introduced by U.S. Senators Mike Enzi of Wyoming and Maggie Hassan of New Hampshire, to help protect patients from counterfeit medical products. According to a joint news release from the senators, the Safeguarding

Therapeutics Act would give the Food and Drug Administration authority to seize and destroy counterfeit medical devices and products, including COVID-19 tests and vaccines, as well as counterfeit combination products like EpiPens. Senator Enzi said that it's crucial that we work to protect patients and ensure confidence in our healthcare system, especially as we continue to combat the COVID-19 pandemic. The U.S. House passed similar legislation in September, but because the Senate version had small technical differences, the Safeguarding Therapeutics Act now must be passed by the House before being sent to the president for his signature.

66 New alliance seeks to fight 'plague' of fake medicines

Publication date	2020-12-14
Create date	2020-12-15
Score	12.48
Report id	845983
Category	Anti-malarial, Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: New alliance seeks to fight 'plague' of fake medicines SciDev.Net

Click here to see the [Original Article](#)

Table 161: Places for report 845983

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 162: Drugs for report 845983

Medicine Name	Medicine Class	Action	ATC Code
		antimalarials	P01B
			J07

Table 163: Other Stories

ID	Title	Link
846614	New alliance seeks to tackle the plague of falsified medical products	Link
853578	New alliance seeks to fight 'plague' of fake medicines	Link
849091	New alliance seeks to fight 'plague' of fake medicines - Sub-Saharan Africa	Link

Notes: COVID-19 has spawned a "stark rise" in the global circulation of fake medical products relating to the pandemic, experts warn as they launch an alliance aimed at tackling the scourge.

The Fight the Fakes (FTF) Alliance, a non-profit association comprising 16 organisations from manufacturers to wholesalers, and research and patient groups, aims to raise the profile of an issue it views as long under-addressed globally, with a disproportionate impact on low- and middle-income countries.

One in 10 medical products in developing countries is either substandard or falsified, according to World Health Organization (WHO) figures from 2017. And some research suggests the prevalence of fake medicines can be as high as 70 per cent in some African countries. [...] COVID-19 has resulted in a surge in falsified medical products, causing concern at a time when vaccines are being developed.

A recent report by the United Nations Office on Drugs and Crime (UNODC) highlights that people deprived of essential medical products in some African countries may accept falsified alternatives under fear and uncertainty engendered by criminal groups.

Angela Me, chief of the Research and Trend Analysis Branch at the UNODC, said: "With vaccines gradually emerging around the globe, it is likely that criminal groups take advantage of the gap between demand and supply. [...]"

67 NBI joins vaccine probe, 'smuggled' drug at issue

Publication date	2020-12-30
Create date	2020-12-31
Score	11.83
Report id	869104
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: NBI joins vaccine probe, 'smuggled' drug at issue manilastandard.net

Click here to see the [Original Article](#)

Table 164: Places for report 869104

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 165: Drugs for report 869104

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Justice Secretary Menardo Guevarra on Wednesday said he has ordered the National Bureau of Investigation (NBI) to investigate the reported illegal distribution and use of unregistered vaccines against COVID-19. Guevarra said the NBI is mandated to determine possible violations of the Food and Drug Administration (FDA) Act, the Consumer Act, and the Medical Practice Act. He clarified, however, that the investigation would not focus solely on the inoculation of members of the Presidential Security Group (PSG) using an unauthorized vaccine as early as September. [...]

68 'Robust mechanism needed to check pilferage & black-marketing of Covid vax'

Publication date	2020-12-19
Create date	2020-12-22
Score	11.81
Report id	853429
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: 'Robust mechanism needed to check pilferage & black-marketing of Covid vax' The Siasat Daily

Click here to see the [Original Article](#)

Table 166: Places for report 853429

Region Name	Country	Location	Latitude	Longitude
Southern Asia	India	New Delhi	28.63576	77.22445

Table 167: Drugs for report 853429

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 168: Other Stories

ID	Title	Link
867593	'Robust mechanism needed to check pilferage & black-marketing of Covid vax'	Link
853520	Private investigators offer Centre help to check counterfeiting of Covid-19 vaccines	Link
853965	Robust mechanism must to check pilferage & black-marketing of COVID-19 vaccines - Sentinelassam	Link

Notes: As India inches closer to the massive national Covid-19 immunisation drive, the necessity to ensure that vaccines reach the people in safe and uncompromised state has become crucial. The huge gap in demand and supply of Covid vaccines has made experts wary of pilferage and infiltration by counterfeits once they hit the market shelves. Lalit Kant, former head of epidemiology and communicable diseases at the Indian Council of Medical Research (ICMR), said that the vaccine is a commodity which is currently sought after by more than 7 billion people around the world, a situation which possibly triggers many kinds of mischiefs. [...] S. Swaminathan, COO, GS1 India, which provides universally unique barcode numbers, concurred with Kant and said that there are high chances of spurious products entering the supply chain. However, he suggested that real-time monitoring to track and trace vaccines from manufacturing to end user can rule out such possibilities. "A robust tracking mechanism to monitor the supply chain of the vaccines are important to trace down if an anomaly emerges. This will be critical for various other reasons – to recall batches in case of any adverse event or manufacturing error, to ensure that the person getting the vaccine gets two shots of the same vaccine from the same manufacturer," he added. [...]

69 Centralized logistical system needed to prevent proliferation of fake vaccines — House leader

Publication date	2021-01-23
Create date	2021-01-25
Score	11.72
Report id	905622
Category	Vaccine
Quality	Falsified
Source	Distributor/Wholesaler
Curation	Manually curated
Incident or General	General

Snippet: Centralized logistical system needed to prevent proliferation of fake vaccines — House leader Manila Bulletin

Click here to see the [Original Article](#)

Table 169: Places for report 905622

Region Name	Country	Location	Latitude	Longitude
South-Eastern Asia	Philippines	Quezon City	14.6488	121.0509

Table 170: Drugs for report 905622

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Quezon City 2nd District Rep. Precious Hipolito Castelo has urged the Department of Health (DOH) to come up with a centralized logistical system to ensure that the proper amount of doses of COVID-19 vaccines are appropriately inoculated to Filipinos. [...] "A centralized logistical system is also encouraged in order to prevent the proliferation of fake vaccines and illegitimate vaccine providers," she said.

70 Health officials warn counterfeit vaccines could be deadly

Publication date	2021-01-15
Create date	2021-01-18
Score	11.72
Report id	893211
Category	Vaccine
Quality	Falsified
Source	Street vendors
Curation	Manually curated
Incident or General	General

Snippet: Health officials warn counterfeit vaccines could be deadly KGBT-TV

Click here to see the [Original Article](#)

Table 171: Places for report 893211

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Texas	31.25044	-99.25061

Table 172: Drugs for report 893211

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: As the vaccine rollout increases so do the scams trying to take advantage of people looking for a dose.

"It's just an individual that you are receiving a phone call from probably identifying themselves as a physician who most likely is not," said Hilda Martinez Interim President at the Better Business Bureau (BBB).

Martinez said since distributions for the vaccines began, they've seen an increase in calls regarding the sales of fake COVID-19 vaccines. She said scammers are targeting those without medical insurance. [...]

71 Fraudsters will exploit Covid vaccine to con vulnerable, warns National Crime Agency

Publication date	2020-11-14
Create date	2020-12-08
Score	10.74
Report id	804383
Category	Vaccine, Medical device for screening/diagnosis/monitoring, Medical devices for disease prevention
Quality	Falsified
Source	Unlicensed outlets
Curation	Manually curated
Incident or General	General

Snippet: Fraudsters will exploit Covid vaccine to con vulnerable, warns National Crime Agency
Telegraph.co.uk

Click here to see the [Original Article](#)

Table 173: Places for report 804383

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	England	52.16045	-0.70312

Table 174: Drugs for report 804383

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 175: Other Stories

ID	Title	Link
843815	New Covid-19 Vaccine Phone Scam Targets Elderly Pensioners After UK Began Pfizer-Biontech Vaccine Rollout	Link

Notes: The new Covid vaccine An alert over Covid vaccine fraud has been issued by the National Crime Agency (NCA) as criminals seek to exploit a breakthrough that could see millions of doses

being issued for vulnerable people in the next six months. Just as fraudsters targeted people by selling fake testing kits and with PPE scams, Graeme Biggar, director-general of the National Economic Crime Centre, part of the NCA, said vaccine fraud was a "new, emerging threat." His warning followed news that distribution of the world's first effective coronavirus vaccine produced by drugs giant Pfizer could start within weeks. Speaking at a webinar organised by the business support body, "Resilience First", Biggar said he expected fraudsters to capitalise on the development by selling fake vaccines.[...]

72 There is Still a Lack of PPEs in the Hospitals in the Us

Publication date	2020-12-21
Create date	2020-12-23
Score	9.96
Report id	856641
Category	Medical devices for disease prevention
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: There is Still a Lack of PPEs in the Hospitals in the Us Science Times

Click here to see the [Original Article](#)

Table 176: Places for report 856641

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Notes: As the first COVID-19 vaccines have started rolling out in the US, many doctors and nurses that will first receive the vaccine said that declaring victory against the pandemic is still premature, especially with the alarming shortage of personal protective equipment (PPEs) in the hospitals in the US.

The New York Times reported that the lack or shortage of the PPEs have led frontline medical health workers to ration their use of disposable gowns, gloves, N95 masks that protect them from catching the virus.

Even at the beginning, there have been shortages of PPEs reported, and during the months of the summer season. According to NPR, demand for respirator masks, gloves, gowns, thermometers, and other PPEs have remained high, as well as their prices. [...] The report said that the shortage of PPEs results from increasing demands and low supply, which has resulted in hospitals competing for limited supplies. Not to mention that the high prices of these PPEs have seemed to become a norm that desperate institutions have been duped into buying fake products. [...]

73 Don't fall for fake vaccine scams, FBI warns

Publication date	2020-11-25
Create date	2020-11-27
Score	9.54
Report id	819002
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Don't fall for fake vaccine scams, FBI warns KSAT San Antonio

Click here to see the [Original Article](#)

Table 177: Places for report 819002

Region Name	Country	Location	Latitude	Longitude
Americas	United States	San Antonio	29.42412	-98.49363

Table 178: Drugs for report 819002

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 179: Other Stories

ID	Title	Link
837425	Consumer Alert: Watch out for fraudulent COVID-19 vaccine scams	Link
847726	Consumer Alert: Watch out for fraudulent COVID-19 vaccine scams	Link
839153	FBI warns of COVID-19 vaccine scams	Link
826354	Don't fall for fake vaccine scams, FBI warns	Link

Notes: As major pharmaceutical companies inch closer to releasing an FDA-approved coronavirus vaccine, federal law enforcement officials are warning that scammers are also hard at work

looking to take advantage of vulnerable people. In the coming weeks, FBI special agents want everyone to look out for schemes offering fake vaccines. "The FBI has been closely following scams connected with the COVID pandemic," said FBI Special Agent Michelle Lee. "Definitely, we saw instances where unscrupulous individuals, criminal organizations, were taking advantage of the fear and the vulnerability that a lot of folks in our community have." [...] Like Lee, Croft warns about the red flags that may appear through a website, text message, email or a phone call. [...] In the meantime, Lee and Croft say beware of the fakes.

"I would never trust anything, like any third party, that isn't a legitimate public health official or a health care provider," Lee said.

74 Turkish scientist's invention to help in detecting fake drugs | Daily Sabah

Publication date	2021-02-09
Create date	2021-02-10
Score	9.06
Report id	931210
Category	Not applicable
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Turkish scientist's invention to help in detecting fake drugs | Daily Sabah Daily Sabah

Click here to see the [Original Article](#)

Table 180: Places for report 931210

Region Name	Country	Location	Latitude	Longitude
Western Asia	Turkey	Turkey	39	35

Notes: Dr. Derya Cebeci, a former employee of the U.S. Food and Drugs Administration (FDA), now fights fake drugs with her new invention. The chemistry expert, who returned to her native Turkey for research, developed an infrared device that can detect whether drugs are genuine within 20 seconds.

Cebeci hopes that her artificial intelligence-supported device that works on a cloud-based system will deal a blow to the fake drug market whose yearly global profit amounts to around \$400 billion. She says fake drugs, from cough syrups containing antifreeze to cancer medications, claim 1 million lives every year globally and that her device, resembling a barcode scanner, can help curb this number. Speaking to Demirören News Agency (DHA) on Tuesday, she said that the technology she developed could also be applied to inspect COVID-19 vaccines and drugs. [...]

75 Beware of scams as coronavirus vaccine approaches FDA approval

Publication date	2020-12-01
Create date	2020-12-08
Score	8.44
Report id	827097
Category	Vaccine, Medical devices for disease prevention
Quality	Falsified
Source	Unlicensed outlets
Curation	Manually curated
Incident or General	General

Snippet: Beware of scams as coronavirus vaccine approaches FDA approval Moscow-Pullman Daily News

Click here to see the [Original Article](#)

Table 181: Places for report 827097

Region Name	Country	Location	Latitude	Longitude
Americas	United States	United States	39.76	-98.5

Table 182: Drugs for report 827097

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 183: Other Stories

ID	Title	Link
825634	The Latest: Beware of COVID-19 scams as vaccine approaches FDA approval	Link
843121	Beware of Fraudulent Coronavirus Tests, Vaccines and Treatments - 2020-11-20	Link
834023	How to watch out for scams as a coronavirus vaccine nears	Link

Notes: [...] Homeland Security investigators are working with Pfizer, Moderna and dozens of other drug companies racing to complete and distribute the vaccine and treatments for the virus. The goal: to prepare for the scams that are coming, especially after the mess of criminal activity this year with phony personal protective equipment, false cures and extortion schemes. [...] Meanwhile, investigators are learning about how the vaccine will be packaged and getting the message out to field agents, creating a mass database of information from more than 200 companies, so they can be prepared to spot fakes and crack down on dangerous fraud. They are monitoring tens of thousands of false websites and looking for evidence of fake cures sold online. Earlier this year as cases exploded, hospitals and governments grew short on masks, gloves and other protective gear. Scams grew, too. Tricksters preyed on unwitting citizens to hand over money for goods they'd never receive. [...]

76 COVID vaccines 'a test of resilience' for FMD anti-counterfeiting

Publication date	2021-01-12
Create date	2021-01-19
Score	8.12
Report id	896499
Category	Vaccine
Quality	Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: COVID vaccines 'a test of resilience' for FMD anti-counterfeiting SecuringIndustry.com

Click here to see the [Original Article](#)

Table 184: Places for report 896499

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 185: Drugs for report 896499

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] There will be new battles ahead, as recent warnings by Interpol and Europol about the emerging threats of counterfeit vaccines show; the rush to bring the vaccine to patients as quickly as possible must not be at the cost of jeopardising the security of the medicines supply. It could, of course, be argued that threats are negligible in Europe where the supply chain for regulated medicines is highly secure, in no small part thanks to the European Medicines Verification System (EMVS) that has been established to fulfil the requirements of the EU Falsified Medicines (EU-FMD) directive.

The EMVS provides a very high level of protection against counterfeiting (and other criminal activities) but – and this is an important ‘but’ – only if the products are supplied in compliance with the EU-FMD/EMVS processes.

All medicines supplied, including COVID vaccines, need to be serialised and tamper-evidenced. Additionally, their unique identifiers (UIs) must be recorded twice; once when the UIs are uploaded to the European Hub at the time of batch release, and again at the point of dispense,

when every pack UI is checked against the appropriate National Medicines Verification System.
[...]

77 Intense Efforts to Secure COVID Vaccine, Keep It Off the Black Market

Publication date	2020-12-16
Create date	2020-12-22
Score	7.67
Report id	849824
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Intense Efforts to Secure COVID Vaccine, Keep It Off the Black Market NBC10 Boston

Click here to see the [Original Article](#)

Table 186: Places for report 849824

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Boston	42.35843	-71.05977

Table 187: Drugs for report 849824

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: As delivery trucks rumble out of Pfizer's Michigan plant with an escort from U.S. Marshals, they are also under the watchful eye of FedEx employees.

Each box of vaccines is equipped with Bluetooth and GPS sensors to monitor their location and temperature.

"I refer to them as guardian angels," said Richard Smith, regional president of the Americas for the shipping giant. "They are using the technology to have eyes on every single one of them to be alerted to any potential failure." [...] "We'll be checking the inventory counts every day," Vreeland said. "We don't want to lose track of any vaccines."

On a broader scale, there are reports that shipping companies will send out "dummy trucks" to throw criminals off the trail. On a microlevel, each vial will contain a special mark that glows under blacklight to prevent counterfeit samples. [...]

78 The COVID Vaccines Are Approaching. Is the FDA Ready to Inspect the Plants Where They're Made?

Publication date	2020-12-02
Create date	2020-12-08
Score	7.47
Report id	828723
Category	Vaccine
Quality	Substandard
Source	Manufacturer
Curation	Manually curated
Incident or General	General

Snippet: The COVID Vaccines Are Approaching. Is the FDA Ready to Inspect the Plants Where They're Made? Vanity Fair

Click here to see the [Original Article](#)

Table 188: Places for report 828723

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Durham	35.99403	-78.89862

Table 189: Drugs for report 828723

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The agency's Team Biologics inspects the facilities that make vaccines and blood products for U.S. patients. One whistleblower—and other insiders—paints a troubling picture of the daunting challenges the elite unit, made up of just 14 investigators, has faced in recent years. [...] On his first afternoon at Merck's Durham plant, Menachem's concern deepened when his FDA supervisor belatedly emailed him a 19-page document, sent to the agency from a confidential informant at the facility. The allegations described a biohazard nightmare. Workers appeared to be defecating and urinating in their uniforms, and feces had been found smeared on the floor of the plant's production area, the letter alleged. In a sterile manufacturing plant, bathroom breaks can be difficult to take because they require additional time, which could serve as one possible explanation for the events inside the Merck plant. Ungowning can take 15 minutes, regowning can take 15 minutes, and on a night shift, there may be no one else to

cover an essential worker during that time, Menachem said. [...]

79 News / Moving the vaccine will be 'the biggest security challenge for a generation'

Publication date	2020-11-12
Create date	2020-12-08
Score	6.97
Report id	801776
Category	Vaccine
Quality	Substandard or Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: News / Moving the vaccine will be 'the biggest security challenge for a generation'
theloadstar.com

Click here to see the [Original Article](#)

Table 190: Places for report 801776

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 191: Drugs for report 801776

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 192: Other Stories

ID	Title	Link
809610	COVID-19 Vaccine Could Become Liquid Gold for Criminals	Link

Notes: [...] "Product losses are clearly the biggest threat, but contamination of pharma cargo during a cargo crime – even if it is not actually stolen – can be just as damaging."

TAPA is advising companies to "leave no stone unturned in assessing the cargo security risks and requirements on a country-by-country basis".

Mr Neumann advised: "With a black market controlled by supply and demand, organised crime groups (OCGs) will be very aware of the value of doses of the vaccine, and are highly likely to be looking for ways to intercept supply chains to steal shipments, especially with such high volumes being distributed within a short timescale. "If such losses do arise, the impact on the global community will be much more far-reaching than the theft of a single shipment of vaccines. As we have already seen this year, with the high number of thefts of PPE, cargo thieves are very active in targeting Covid-related products. So, as industry, we must be ready." [...]