

Medical Product Quality Report – **COVID-19 vaccine** issues

18 March 2021

Data included up to 5 March 2021

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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. This report is cumulative and newly added reports since the last issue of this report up to 10th February 2021 (report dated 23 February 2021) are indicated in red.

Between 12th March 2020 and 5th March 2021 we found, excluding duplicates, 76 reports of diverted or SF COVID-19 vaccines from 28 countries in the lay press (see Figure 1). When the vaccines were stated as unauthorised copies of approved vaccines, they were copies of products from Pfizer/BioNTech (9), AstraZeneca (6), Sinovac (4), Sinopharm (4), Moderna (2), and were reported from 10 countries (Australia, Brazil, China, Italy, Japan, Malaysia, Mexico, Philippines, USA, Ukraine) and online. Up to 5th March 2021, we identified nine public domain reports of diverted COVID-19 vaccines, compared to only two reports in the previous 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.

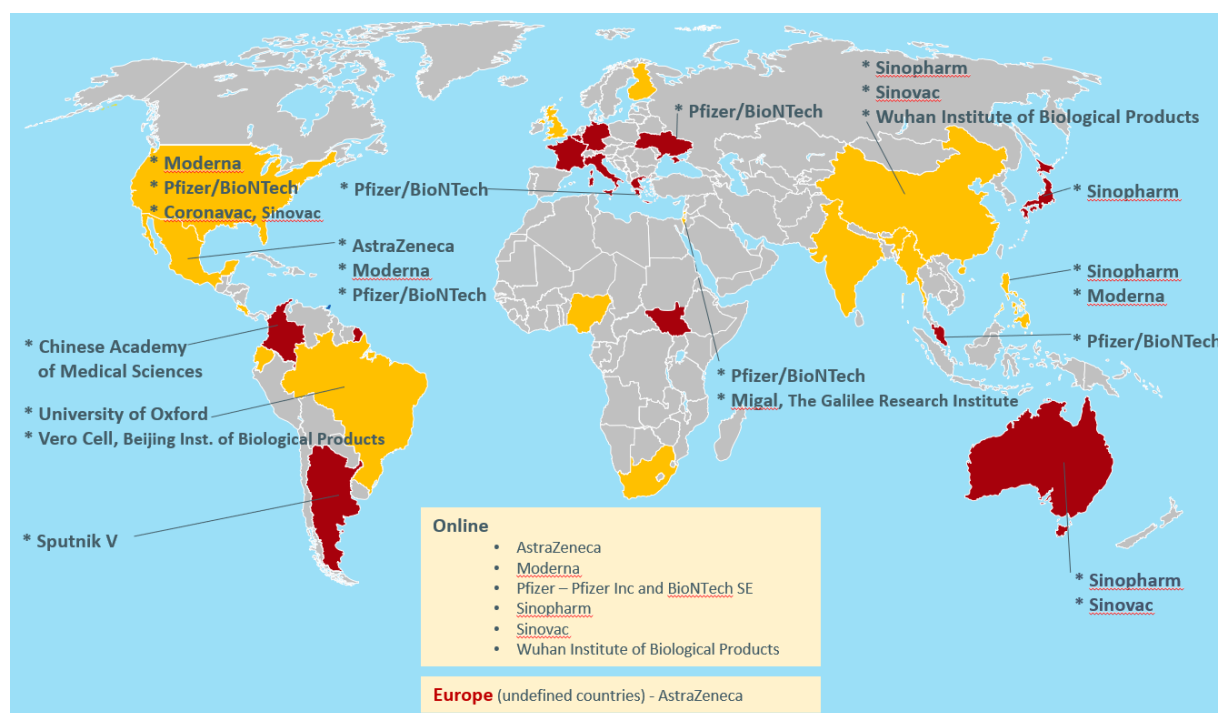


Figure 1. Countries with public reports on diverted, substandard or falsified COVID-19 vaccines. Countries with reports are indicated in orange or red. Orange shaded countries were reported as affected in the previous issue of this report. The red shaded countries are those for which there were no incidents reported in the previous issue. 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 and 2.

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, 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. The report 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.

This report is a cumulative report and is updated monthly. Newly added reports are indicated in red font. 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 Oliaro (IDDO) and Gareth Blower (ex-IDDO) with curation of the 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 and by . Thi Ngan Do, Jingying Xu and Ana Rosado Olmo (part of the Medicine Quality Research Group, IDDO).

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

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	version 2: 18 March 2021	data up to March 5 th , 2021

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

2.1 Methodology

The reports presented here were extracted from the Medicines Quality Monitoring Globe ([the MQM Globe is accessible on the IDDO website⁴](#)), 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 (covering 2020) and 2 (covering 2021) are all alerts on SF COVID-19 vaccines that were present in the Medicine Quality Monitoring Globe (MQM Globe) on the 5th of March 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 include data that were published in English. For articles in French, Spanish, Mandarin, and Vietnamese in 2020; please consult the online MQM Globe. For 2021 we include articles in French, Spanish, Vietnamese and/or Chinese if the incident was not reported in the English lay press (Table 2).

With the information provided in the articles, it is not always possible to make the distinction between cases of financial scams, SF COVID-19 vaccines or diverted COVID-19 vaccines. We aim at including incidents in which it is likely that a physical product claimed to be a vaccine is involved. When the article clearly states that the offers are pure financial scams (without a physical purported vaccine), we do not include the article: for example, criminals offering COVID-19 vaccines through a fake website⁶ or COVID-19 vaccines sold over the phone⁷ for which it is clearly established that it concerns a scam in which criminals are after personal details and money. In case of doubt and the possibility of a physical product behind the offer, we include the article: for example, vaccines are offered online or by phone but we cannot exclude

⁴Infectious Diseases Data Observatory. Medicine Quality Monitoring Globe. Web Page. Published 2020. Accessed March 11, 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>

⁶ CBS Baltimore. **3 Maryland Men Charged With Creating Fraudulent Website To Sell COVID-19 Vaccines**. CBS Baltimore. <https://baltimore.cbslocal.com/2021/02/11/3-maryland-men-face-federal-charges-for-fraud-scheme-to-sell-covid-19-vaccine/>. Published February 11, 2021. Accessed March 11, 2021.

⁷ Lenahan I. **COVID-19 vaccine phone scam: Rye police alert residents of bogus calls**. *Seacoastonline*. <https://eu.seacoastonline.com/story/news/local/2021/02/15/covid-19-vaccine-phone-scam-rye-police-alert-residents-bogus-calls/4488304001/>. Published February 15, 2021. Accessed March 11, 2021.

that there is a physical product behind the offer because it is not mentioned in the article or no investigation has been done.

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.

2.2 Incidents since the beginning of the pandemic

Between 12th March 2020 and 5th March 2021 we found, excluding duplicates, 76 reports of incidents with COVID-19 vaccines in 28 different countries and/or online (see Figure 2): 22 reports were published in 2020 (see Table 1), 54 reports were published in 2021 (see Table 2). Nine of the reports deal with diverted vaccines and four with issues of degradation. Unauthorised copies of approved COVID-19 vaccines of the Pfizer/BioNTech (9), AstraZeneca (6), Sinovac (4), Sinopharm (4), Moderna (2), and were reported from 10 countries (Australia, Brazil, China, Italy, Japan, Malaysia, Mexico, Philippines, USA, Ukraine) and online.

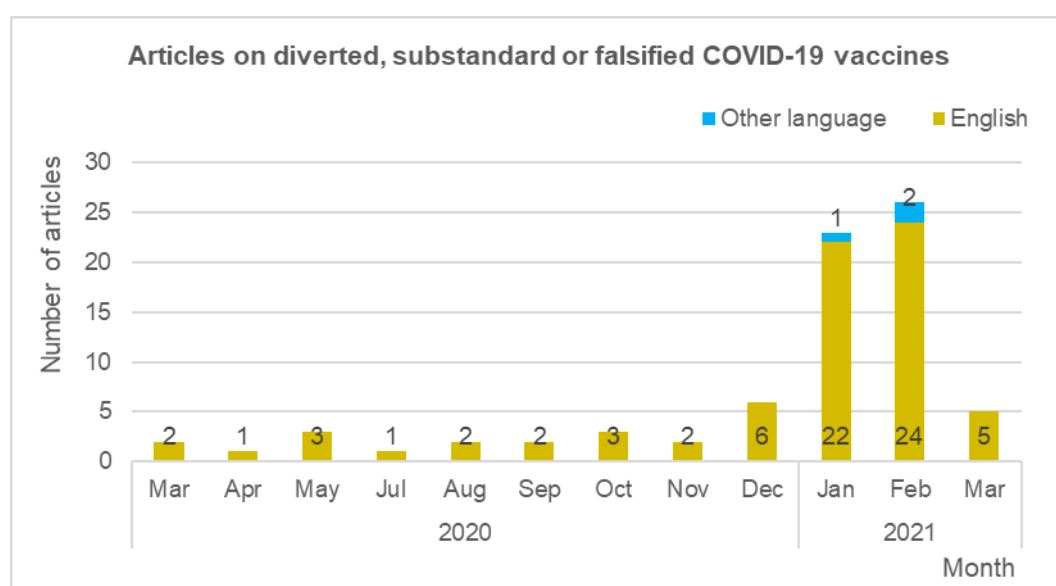


Figure 2. Articles on diverted, substandard or falsified COVID-19 vaccines on the Medicine Quality Monitoring Globe.

Reports date from 12 March 2020 until 5 March 2021. We have tried to identify primary reports – there are many other reports describing these issues.

Table 1. Reports in 2020 on substandard, falsified or diverted vaccines available in the Medicine Quality Monitoring Globe, in chronological order.

Reports date from 12 March 2020 until 31 December 2020. 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. We only included articles from the English lay press. Information in red font was added since the last report until 10th February 2021.

2020					
Publication date	Location	Product/ organization	Title	MQM Globe report ID	URL ⁸
12 March 2020	India	-	Maharashtra: Three held for administering fake coronavirus vaccines	487568	https://www.deccanherald.com/national/west/maharashtra-three-held-for-administering-fake-coronavirus-vaccines-812962.html
23 March 2020	USA	-	US Court Blocks Website Selling Fake #COVID19 Vaccine	497263	https://www.infosecurity-magazine.com/news/us-court-blocks-fake-covid-19/
30 April 2020	USA	-	Man busted for selling fake coronavirus vaccine in Washington	549794	https://mynorthwest.com/1847021/coronavirus-vaccine-scam-washington/
01 May 2020	Online	-	Blood of coronavirus survivors sold on the dark web as 'makeshift vaccine'	550753	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	578176	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 Inst.	Fake Israeli coronavirus vaccine being sold in South America	582392	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	646267	https://www.courier-journal.com/story/news/local/2020/07/13/louisville-man-advertised-fake-coronavirus-vaccine/5431942002/
13 August 2020	Online, China	* Sinovac * Wuhan Inst. of Biological Products	Fake pre-orders for coronavirus vaccines found in China	688388	https://www.taiwannews.com.tw/en/news/3987217
21 August 2020	Online, China	* Sinopharm * Sinovac	Authorities warn against illegal COVID-19 vaccines and medication sold online	723320	https://www.abc.net.au/news/2020-08-22/border-force-warn-against-importing-coronavirus-vaccines/12581996
11 September 2020	Online	-	Darknet Dealers are Selling COVID-19 Test Kits for Thousands of Dollars	723812	https://www.vice.com/en_us/article/akzpv5/covid-19-rapid-test-kits-for-sale-dark-web
26 September 2020	India	-	Fake COVID-19 Vaccine Manufacturing Unit Busted In Bargarh	742841	https://odishatv.in/odisha-news/fake-covid-19-vaccine-manufacturing-unit-busted-in-bargarh-478473
02 October 2020	Myanmar	-	Myanmar Health Chiefs Warn Against Fake COVID-19 Vaccines	750450	https://www.irrawaddy.com/specials/myanmar-covid-19/myanmar-health-chiefs-warn-fake-covid-19-vaccines.html
13 October 2020	Brazil	AstraZeneca/ University of Oxford	Sales of fake Covid-19 vaccine in Brazil reported	764662	https://www.plenglish.com/index.php?o=rn&id=60698&SEO=sales-of-fake-covid-19-vaccine-in-brazil-reported Accessible duplicate article https://riotimesonline.com/brazil-news/miscellaneous/covid-19/fake-covid-19-vaccine-sold-in-brazils-city-of-niteroi-regulatory-body-alerts/

⁸ Over time some URLs might not work anymore, and in that case one can find a summary/extract of the article on the online MQM Globe (<https://www.iddo.org/medicine-quality-monitoring-globe>) using 'report ID:XXXXXX' in the search box.

30 October 2020	Online	-	FDA Warns Of Bogus Coronavirus Vaccines And Treatments Being Sold Online	787356	https://pittsburgh.cbslocal.com/2020/10/30/fda-warns-of-bogus-coronavirus-vaccines-and-treatments-being-sold-online/
11 November 2020	Online	-	Dark Web Has Become a Market place for 'Vaccines' and Other Pandemic Scams	835199	https://www.bloomberg.com/news/articles/2020-11-11/dark-web-has-become-a-marketplace-for-vaccines-and-other-pandemic-scams?sref=Pqfp0AgC
13 November 2020	Online, Australia	*Sinopharm *Sinovac	COVID-19 vaccines selling for \$24k on black market	803482	https://www.noosanews.com.au/news/covid-19-vaccines-selling-for-24k-on-black-market/4139565/
04 December 2020	Online	Pfizer/BioNTech	Darknet Drug Dealers Are Now Selling 'Pfizer COVID Vaccines'	830853	https://www.vice.com/en/article/akdkkg/darknet-drug-dealers-are-now-selling-pfizer-covid-vaccines
11 December 2020	Online	Pfizer/BioNTech	Covid vaccine: Scammers are flogging fake coronavirus jabs on the dark web for £230	841777	https://www.mirror.co.uk/tech/covid-vaccine-scammers-flogging-fake-23151276
21 December 2020	Philippines	Sinopharm	Locsin says reported COVID-19 vaccine in Binondo could be fake, just 'dextrose'	855225	https://www.gmanetwork.com/news/news/nation/768836/locsin-says-reported-covid-19-vaccine-in-binondo-could-be-fake-just-dextrose/story/
23 December 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	890939	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 December 2020	South Africa	-	Interpol notes fake Covid-19 vaccine bust in SA	865724	https://citizen.co.za/news/south-africa/crime/2413293/interpol-notes-fake-covid-19-vaccine-bust-in-sa/
31 December 2020	USA	Moderna	Pharmacist Arrested, Accused Of Destroying More Than 500 Moderna Vaccine Doses	895651	https://www.npr.org/2020/12/31/952536531/pharmacist-arrested-accused-of-destroying-more-than-500-moderna-vaccine-doses?t=1614099235033

Table 2. Reports in 2021 on substandard, falsified or diverted vaccines available in the Medicine Quality Monitoring Globe, in chronological order.

Incidents in red font are those included for the first time since the last report until 10th February 2021. Reports date from 1 January 2021 until 5 March 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. We included articles from the Spanish, French, Chinese and/or Vietnamese press if the event was not reported in the English lay press.

2021						
Publication date	Location	Product/ Organization	Additional information	Title	MQM Globe report ID	URL ⁹
05 January 2021	Online	* Wuhan Institute of Science * Moderna * Pfizer/BioNTech * AstraZeneca	-	A COVID-19 shot for \$150? Online scams surge as slow vaccine rollout frustrates	877299	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
05 January 2021	Argentina	Sputnik V	degraded	Coronavirus: en Olavarria tuvieron que tirar 400 vacunas que perdieron la cadena de frio (Due to a cold-chain breakdown 400 doses had to be thrown away)	877565	https://www.rosario3.com/informaciongeneral/Coronavirus-en-Olavarria-tuvieron-que-tirar-400-vacunas-que-perdieron-la-cadena-de-frio-20210105-0001.html
07 January 2021	UK	-	-	Elderly woman, 92, tricked into paying £160 to get fake Covid jab in her own home	881071	https://www.dailystar.co.uk/news/elderly-woman-92-tricked-paying-23282075
13 January 2021	Online	* Moderna * Pfizer/BioNTech	-	The dark net is being flooded with fraudulent COVID-19 vaccines	890850	https://www.crikey.com.au/2021/01/14/dark-web-covid-19-vaccine-black-market/
14 January 2021	Mexico, online	Pfizer/BioNTech	-	Organized crime in Mexico selling fake Covid-19 vaccines	892039	https://www.laprensa-latina.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
14 January 2021	USA	Moderna	diverted	Two vials of Moderna COVID-19 vaccine stolen from Florida State Hospital in Chattahoochee	936933	https://eu.tallahassee.com/story/news/local/state/2021/01/14/two-vials-moderna-covid-19-vaccine-stolen-florida-state-hospital-chattahoochee/4156644001/
15 January 2021	UK	-	-	Shameless fraudster tries to sell 61-year-old woman fake Covid-19 vaccine for £170 in Worksop area	893684	https://www.worksopguardian.co.uk/news/crime/shameless-fraudster-tries-sell-61-year-old-woman-fake-covid-19-vaccine-ps170-worksop-area-3102846
15 January 2021	Nigeria	-	-	Fake COVID-19 vaccines in circulation, NAFDAC warns	892876	https://www.vanguardngr.com/2021/01/updated-fake-covid-19-vaccines-in-circulation-nafdac-warns/
18 January 2021	Costa Rica	-	-	Fake Blackmarket COVID-19 Vaccines in Costa Rica	922769	https://news.co.cr/fake-blackmarket-covid-19-vaccines-in-costa-rica/82725/
18 January 2021	USA	Moderna	uncertain aetiology	Coronavirus: California calls for pause, investigation after allergic reactions to Moderna vaccine batch	897789	https://www.mercurynews.com/2021/01/18/coronavirus-california-calls-for-pause-investigation-after-allergic-reactions-to-moderna-vaccine-batch

Over time some URLs might not work anymore, and in that case one can find a summary/extract of the article on the online MQM Globe (<https://www.iddo.org/medicine-quality-monitoring-globe>) using 'report ID:XXXXXX' in the search box.

18 January 2021	Mexico	-	-	Liquid Gold - False COVID-19 Vaccines Emerge in Latin America	897295	https://www.insightcrime.org/news/analysis/false-covid-vaccines-emerge/
19 January 2021	Mexico	Pfizer/BioNTech	diverted	4 vaccine doses stolen in Mexico, oxygen tanks spark appeal	943497	https://kstp.com/news/4-vaccine-doses-stolen-in-mexico-oxygen-tanks-spark-appeal/5983681/
20 January 2021	USA	Moderna	degraded	Thousands of Moderna Covid vaccine doses spoil in Maine & Michigan due to temperature control issues	900582	https://www.rt.com/usa/513082-michigan-maine-moderna-vaccine-ruined/
21 January 2021	Online, USA	CoronaVac, Sinovac	-	Leading Indicators Foreshadow COVID-19 Vaccine Scams	902346	https://securityboulevard.com/2021/01/leading-indicators-foreshadow-covid-19-vaccine-scams/
21 January 2021	Online	-	-	Sale of Fake COVID-19 Vaccines Grew 400% on the Dark Web	902237	https://www.entrepreneur.com/article/363880
22 January 2021	USA	-	-	Seller of fake vaccine arrested in Seattle	904241	https://www.myclallamcounty.com/2021/01/22/seller-of-fake-vaccine-arrested-in-seattle/
22 January 2021	USA	Moderna	diverted	Texas doctor fired, charged with stealing COVID-19 vaccine to give to his friends, family	903988	https://www.foxnews.com/us/texas-doctor-charged-coronavirus-vaccine-theft-case Articles bringing other elements to the event were published in February: *) 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 January 2021	Mexico, online	Moderna	-	Mexico Warns Citizens of Fake COVID-19 Vaccines	907667	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 January 2021	UK	-	-	Sick fraudsters inject Scots with fake Covid vaccine for cash in cruel scam	909286	https://www.dailyrecord.co.uk/news/scottish-news/sick-fraudsters-inject-scots-fake-23389274
26 January 2021	USA	Moderna	diverted	Polk County 'Paramedic of the Year' arrested in theft of COVID vaccines	936949	https://www.wfla.com/news/polk-county/judd-polk-county-paramedic-arrested-for-stealing-coronavirus-vaccines/
27 January 2021	Ecuador	-	-	Ecuador Health Centre 'Gives Fake Covid Jab to 70,000 People'	910241	https://www.euroweeklynews.com/2021/01/27/ecuador-health-centre-gave-fake-covid-jab-to-70000-people/
29 January 2021	Online	-	-	Covid-19 medicines, PPE, tests and vaccines are being sold on the dark web	913513	https://www.dailymail.co.uk/sciencetech/article-9198535/Covid-19-medicines-PPE-tests-vaccines-sold-dark-web.html
31 January 2021	Finland	-	-	Woman suspected of peddling fake vaccine in southeast Finland	917132	https://yle.fi/uutiset/osasto/news/woman_suspected_of_peddling_fake_vaccine_in_southeast_finland/11765320
FEBRUARY						
01 February 2021	China	-	-	80 held in China over fake Covid-19 vaccines	918486	https://www.scmp.com/news/china/politics/article/3120083/chinese-police-detain-80-selling-fake-covid-19-vaccines
04 February 2021	Mexico, online	AstraZeneca	-	Cofepris alerts about the illicit sale of the AstraZeneca vaccine	924171	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
04 February 2021	USA	-	diverted	COVID-19 vaccine doses stolen in Florida after car keys left in ignition	936924	https://www.clickorlando.com/news/local/2021/02/04/video-shows-person-of-interest-in-stolen-covid-19-vaccine-investigation-police-say/

04 February 2021	USA	-	diverted	St. Pete City Council left in the dark on theft of COVID-19 vaccine vials, investigation into fire department employee	936941	https://www.abcactionnews.com/news/region-pinellas/st-pete-city-council-left-in-the-dark-on-theft-of-covid-19-vaccine-vials-investigation-into-fire-department-employee
08 February 2021	Philippines	-	-	Avoid COVID-19 vaccines from black market, doctors warn	930157	https://newsinfo.inquirer.net/1393684/avoid-vaccines-from-black-market-doctors-warn
08 February 2021	Online	-	-	Bogus COVID-19 Vaccine Offers Flooding The 'Dark Web'	929197	https://chicago.cbslocal.com/2021/02/07/dark-web-covid-vaccine-scams/
10 February 2021	China	-	-	Over 58,000 Fake COVID-19 Vaccine Doses Busted in China, 600 Doses Sent Overseas	932609	https://www.urdupoint.com/en/world/over-58000-fake-covid-19-vaccine-doses-buste-1164592.html
10 February 2021	UK, Italy, Japan	Sinopharm	-	黑市疫苗，为何屡禁不止？ (Black market vaccines, why do they persist? --> reports on several incidents)	932480	https://www.yicai.com/news/100947924.html
11 February 2021	Greece	Pfizer/BioNTech	diverted	Greek Police Probe Theft of COVID-19 Vaccine Vial Holding Six Doses	948981	https://www.thenationalherald.com/archive_general_news_greece/arthro/greek_police_probe_theft_of_covid_19_vaccine_vial_holding_six_doses-1776428/
11 February 2021	USA	Pfizer/BioNTech	degraded	About 6,000 COVID Vaccine Doses Potentially Spoiled In OC Due To Refrigerator Malfunction	933403	https://news.yahoo.com/6-000-covid-vaccine-doses-003325113.html
14 February 2021	India	-	-	Woman injects fake COVID-19 vaccine to elderly couple, flees with 8 tola jewellery	940683	https://www.timesnownews.com/hyderabad/article/woman-injects-fake-covid-19-vaccine-to-elderly-couple-flees-with-8-tola-jewellery-hyderabad/720332
14 February 2021	USA	Pfizer/BioNTech	diverted	1,000 COVID-19 Vaccine Doses Stolen From Under Nose of Mayor Kane	943453	https://bleedingcool.com/tv/1000-covid-19-vaccine-doses-stolen-from-under-nose-of-mayor-kane/
14 February 2021	Philippines	Moderna	-	Rumored Moderna vaccine shipment likely fake, says FDA	939722	https://www.sunstar.com.ph/article/1885882/Manila/Local-News/Rumored-Moderna-vaccine-shipment-likely-fake-says-FDA
15 February 2021	Europe	-	-	EU's anti-fraud agency warns against fake COVID vaccines	941124	https://www.swissinfo.ch/eng/eu-s-anti-fraud-agency-warns-against-fake-covid-vaccines/46371790
16 February 2021	Belgium	-	-	Belgium warns against fake Russian vaccines	942342	https://www.brusselstimes.com/news/belgium-all-news/155115/belgium-warns-against-fake-russian-vaccines-vaccination-taskforce-info-campaign-herd-immunity/
17 February 2021	South Africa	-	-	Fake Covid-19 vaccines discovered in Gauteng	945211	https://www.jacarandaafm.com/news/news/fake-covid-19-vaccines-discovered-gauteng/ (This incident might be related to the one described in report ID 865724 on 28 December 2020, but not clear if this article mentions an additional warehouse or if it is referring to the same event)
17 February 2021	Brazil	-	-	'Shots of air': Brazilian health workers accused of giving fake COVID vaccinations with empty syringes	944701	https://nationalpost.com/news/world/brazil-police-probe-reports-of-coronavirus-vaccine-shots-of-air
17 February 2021	Mexico	Pfizer/BioNTech	-	Mexico Arrests 6 for Trafficking False Coronavirus Vaccines	944948	https://www.nbcdfw.com/news/local/mexico-arrests-6-for-trafficking-false-coronavirus-vaccines/2555781/
19 February 2021	Colombia	Chinese Academy of Medical Sciences (Vero Cell)	-	COVID-19 vaccine counterfeits set off alarms across the globe	947830	https://www.bioworld.com/articles/503830-covid-19-vaccine-counterfeits-set-off-alarms-across-the-globe
19 February 2021	Italy	*Pfizer/BioNTech *AstraZeneca	-	Italy probes vaccine scams even as officials court offers	947669	https://www.theridgefieldpress.com/news/article/Italy-probes-vaccine-scams-even-as-officials-15963865.php
21 February 2021	Ukraine	Pfizer/BioNTech	-	Covid-19 vaccines hit the black market	950068	https://www.aspistrategist.org.au/covid-19-vaccines-hit-the-black-market/

22 February 2021	Trinidad and Tobago	-	-	Fake COVID vaccines being offered to Trinidad	951551	https://www.stabroeknews.com/2021/02/22/news/regional/trinidad/fake-covid-vaccines-being-offered-to-trinidad-pm/
23 February 2021	France	-	-	Il se fait passer pour un infirmier et administre un faux vaccin (He pretends to be a nurse and administers a fake vaccine)	951944	https://www.alouette.fr/news/bretagne-il-se-fait-passer-pour-un-infirmier-et-administre-un-faux-vaccin-10676
25 February 2021	USA	-	degraded	COVID-19 vaccine doses tossed around state, low amounts in Pima County	956586	https://www.kold.com/2021/02/26/covid-vaccine-doses-tossed-around-state-low-amounts-pima-county/
25 February 2021	Europe	AstraZeneca	-	Fraudsters offer 400 million 'ghost' COVID vaccines in EU: officials	955619	https://www.reuters.com/article/us-health-coronavirus-eu-vaccines/fraudsters-offer-400-million-ghost-covid-vaccines-in-eu-officials-idUSKBN2AP1GN
26 February 2021	USA	-	-	Vaccine doses may have been stolen at Pipkin Building in early February, Tennessee health department says	957718	https://www.commercialappeal.com/story/news/local/coronavirus/2021/02/26/covid-19-vaccines-stolen-in-memphis-shelby-county-health-department/6822867002/
MARCH						
01 March 2021	Europe	AstraZeneca	-	Europe Probes Attempted Vaccine Scams of More Than \$15 Billion	961495	https://www.bloomberg.com/news/articles/2021-03-01/europe-probes-attempted-vaccine-scams-of-more-than-15-billion
02 March 2021	South Sudan	-	-	Thai Army doctor sold fake Covid-19 vaccines to UN peacekeepers	962520	https://www.straitstimes.com/asia/se-asia/thai-army-doctor-sold-fake-covid-19-vaccines-to-un-peacekeepers
03 March 2021	Israel	Pfizer/BioNTech	diverted (stolen empty vials)	2 Israelis detained on suspicion of selling used COVID vaccine vials	975656	https://www.timesofisrael.com/2-israelis-detained-on-suspicion-of-selling-used-covid-vaccine-vials/
04 March 2021	Malaysia, online	Pfizer/BioNTech	-	Police Investigate Fake COVID-19 Vaccines Sold Online, Losses Amounting Up To RM285,499	966743	https://worldofbuzz.com/police-investigate-fake-covid-19-vaccines-sold-online-losses-amounting-up-to-rm285499/ More information: https://www.sinchew.com.my/content/content_2437445.html
04 March 2021	Online, France, Germany, UK, USA	-	-	Scammers are Selling Fake COVID-19 Vaccines for up to \$1,200	965729	https://www.itnewsafrika.com/2021/03/scammers-are-selling-fake-covid-19-vaccines-for-up-to-1200/

2.3 New incidents included since the last COVID-19 vaccine report including incidents until 10th February 2021.

Substandard issues and worrying events

In January, in Argentina, due to a cold chain break down, 400 doses of Sputnik V vaccine had to be thrown away (report ID 877565). An investigation was initiated as some elements indicated that bad intentions may have been involved. Two articles reported on potentially degraded vaccines in the USA. One article reports on the number of COVID-19 vaccine doses that were lost for different reasons in Pima County (report ID 956586). Amongst those vaccines, 20 doses were lost due to “*failure to store properly*” and 100 doses due to a problem with a temperature sensor. In California there was a problem with the refrigeration overnight due to apparent human error (report ID 933403). Officials did not confirm the quantity of doses affected but it may have been up to 6,000 Pfizer doses. The help of the manufacturer was sought to determine if the vaccine could still be used. We have not seen information on the outcome of the investigation.

Thefts

Since the last version of this report, including articles until 10th February 2021, we found three additional reports of COVID-19 vaccine thefts for the month of January 2021. The first article published on the 14th of January stated that police were investigating the reported theft of 2 vials of the Moderna vaccine from a hospital in Florida, USA (report ID 936933). The second article, on the 19th of January, reported on the theft of 4 doses of the Pfizer/BioNTech vaccine in a public hospital in Cuernavaca, Mexico, allegedly by or with the help of a hospital employee (report ID 943497). The third article, on the 26th of January, concerns the theft of three doses of the Moderna vaccine destined for first responders in one of Florida’s counties, USA (report ID 936949). Allegedly a paramedic helped a supervisor to ‘steal’ the vaccine and subsequently “*forged the vaccine screening and consent forms*”.

For February 2021 we report on 4 cases of stolen COVID-19 vaccines. In a medical centre in Greece, police are investigating a case where a vial holding six doses of the COVID-19 Pfizer/BioNTech vaccine disappeared (report ID 948981). Four alleged cases were in the USA. In the first case on the 3th of February a car containing 30 doses of COVID-19 vaccines was stolen in Plant City (report ID 936924). The second occurred in St-Petersburg, where a firefighter was under investigation for the theft of COVID-19 vaccine vials (report ID 936941). The third is a case in Knox County where approximately 1,000 Pfizer/BioNTech doses went missing; according to the mayor of the county the missing box might have never been shipped by Pfizer (report ID 943453). Pfizer claims having shipped the vaccine and allegedly upon delivery the box was signed off. Finally an article reports on vaccine management issues in Shelby County (report ID 957718). The state of Tennessee is investigating the case and allegedly COVID-19 vaccine doses might have been stolen.

On the 3th of March an article reports on a case of stolen empty vaccine vials in Israel (report ID 975656). Two men are suspected of stealing empty Pfizer/BioNTech vaccine vials from an employer and selling them on the internet for 100 USD each.

Dozens of vials were found upon inspection of the suspect's home. At least nine vials were sold: seven to buyers in the USA, one in France and one in Italy.

Seizures of falsified COVID-19 vaccine

On the 3th of March Interpol published a press alert on two investigations that were supported and facilitated by Interpol¹⁰. In South Africa, law enforcement agencies raided two warehouses in Gauteng and found COVID-19 vaccines without the necessary approval (report ID 865724 and 945211). Approximately 2,400 falsified COVID-19 vaccine doses, in around 400 vials, were seized. In China 80 people were arrested and accused of selling falsified COVID-19 vaccines in Beijing, Jiangsu and Shandong (report ID 918486). Three thousand pre-filled saline syringes were seized. Interpol stated that they believed that it is only the tip of the iceberg of COVID-19 vaccine crime.

In November 2020, allegedly the Chinese police detained several suspects linked to production and distribution of approximately 58,000 doses of falsified COVID-19 vaccines (report ID 932609). The falsified vaccines consisted of saline solution and allegedly several doses were transferred to Hong Kong. A first batch of 600 doses arrived on the 11th of November 2020 and were allegedly shipped overseas. A second shipment with 1,200 doses arrived on November 12th in Hong Kong but were subsequently destroyed.

On February 11, a shipment of Moderna COVID-19 vaccines arrived in the Philippines (report ID 939722). The Philippine FDA started an investigation since they believed that the products are falsified, since Moderna did not commit on sending a shipment and the company previously said it was not able to supply until June or July 2021. In Colombia, a Chinese couple were arrested upon arrival at the Colombia's El Dorado International Airport and a cooler box with 70 vials of COVID-19 vaccines was seized (report ID 947830). The vials were labelled as "*manufactured by the Chinese Academy of Medical Sciences, from Kunming, China*", which developed the Vero cell COVID-19 vaccine. It is unclear if the vaccines were genuine or falsified products but the couple was fined for importing an unregistered product.

Injection of purported COVID-19 vaccines

In India a nursing student injected an elderly couple with an unknown chemical at their home and stole their jewellery (report ID 940683). The nursing student told the couple she was able to obtain the vaccine because she worked as a nurse. In Brazil, health care workers allegedly inoculated elderly people with fake COVID-19 vaccine doses, using empty syringes (report ID 944701). At least three cases have been reported of "*shots of air*" instead of genuine vaccine doses and police started an investigation. In South Sudan, a Thai army doctor was alleged to have injected 273 soldiers of the United Nations peacekeeping troops with falsified vaccines (report ID 962520). The doctor sold the shots as flu vaccines that could protect against COVID-19 as well and

¹⁰ Interpol. Fake COVID vaccine distribution network dismantled after INTERPOL alert. News. Published March 3, 2021. Accessed March 3, 2021. <https://www.interpol.int/en/News-and-Events/News/2021/Fake-COVID-vaccine-distribution-network-dismantled-after-INTERPOL-alert>

sold them for 20 USD per dose. Several senior officials in Ukraine have allegedly paid 4,700 USD to receive a COVID-19 vaccine (report ID 950068). It is thought to have been the Pfizer/BioNTech vaccine that might have been imported by Israeli organised crime groups. In France, a man was charged with administering a falsified COVID-19 vaccine. He fooled the victim by saying she was enrolled in a clinical trial, took several blood samples and finally administered a falsified COVID-19 vaccine (report ID 951944).

Illicit sales

In the previous Medical Product Quality Report we reported on findings of the cyber security company Check Point on the rise of COVID-19 vaccines on the dark web. In February an article provided some examples of what is found on the dark web (report ID: 929197): 300 USD for 14 doses; 30,000 USD for 10,000 vials; one seller is using a picture of a “sample” vial with an expiration date in December 2020; 1,500 USD for four doses of a “Chinese vaccine”. Another article reports on ‘underground scammers’ selling falsified COVID-19 vaccines for 250 to 1,200 USD per dose (report ID 965729). Allegedly most of the sales originate from France, Germany, UK and the USA and offers are initially made through messaging apps (such as Wickr and Telegram) followed by a payment request in cryptocurrency. The article highlights what we have underscored previously: *“it’s impossible to tell how many doses of the vaccine being advertised online are actual doses and how many advertisements are a scam”*. In Malaysia two police reports of COVID-19 vaccines sales through social media have been investigated by the Commercial Crime Investigation Department (report ID: 966743).

In January, the Mexican medicine regulatory authority, Cofepris, reported on the illicit sales of Pfizer/BioNTech and Moderna vaccines. In February they reported illicit sales of the AstraZeneca vaccine (report ID 924171). Another article in February, reported on six men being arrested in Mexico for allegedly trafficking falsified Pfizer/BioNTech vaccines and selling them for approximately 2,000 USD per dose (report ID 944948). In the Philippines a group of doctors from the Healthcare Professionals Alliance Against Covid-19 (HPAAC) warned in an article against diverted or falsified medicines (report ID 930157). Allegedly COVID-19 vaccines are illegally sold in *“online chat groups, workplaces, and even in neighbourhoods across Metro Manila”*. Belgian authorities received reports of falsified COVID-19 vaccines offered to the population, allegedly most of them were Russian vaccines (report ID 942342). All the above mentioned authorities warn that people should not buy vaccines through the private sector in shops, on the streets or online and stress the importance of relying on the government distribution systems.

Not only individual patients are lured into buying falsified vaccines. National and regional authorities, responsible for the procurement of vaccines are also targeted. In mid-February the European Anti-Fraud Office (OLAF) warned against falsified COVID-19 vaccines and said criminals are also approaching national authorities with falsified products (report ID 941124). At the end of February an article reported that criminals have allegedly offered, altogether, 400 million doses of COVID-19 vaccines to European Union countries (report ID 955619). Most of the offers concern the AstraZeneca vaccine. It remains unclear if the offers concern diverted genuine vaccine

doses or saline solutions. On the first of March another article published information from an OLAF report (report ID 961495). Allegedly the COVID-19 vaccine offered to governments and health authorities amounts to over 900 million doses and allegedly 92% of the fake offers were for the AstraZeneca vaccine. In addition the report discusses the risk of theft of COVID-19 vaccines at different levels of the supply chain and warns about SF COVID-19 vaccines on the illicit market.

For example, in Italy, the police are investigating several cases in which people are trying to sell COVID-19 vaccines outside the European Union procurement system (report ID 947669): a regional official was offered to buy 27 million doses of the Pfizer/BioNTech, Russian or Chinese vaccines; someone tried to sell AstraZeneca vaccines to regional officials, claiming to be a representative of the company. The Ministry of Health of Trinidad and Tobago has been offered falsified and extremely high-priced COVID-19 vaccines (report ID 951551).

An article in Chinese published in February 2021 highlights several cases from the previous months related to vaccines on the black market and the dark web (report ID 932480). We reported some of the cited incidents in our earlier report, however, for the following incidents we do not hold prior articles: (i) A company in London allegedly arranged trips for rich people to go to Dubai in order to get vaccinated at a cost of 40,000 pounds. (ii) In November 2020, Italian media reported that general practitioners noticed that several of their patients took a purported COVID-19 vaccine, allegedly the vaccines were part of a Phase III clinical trial but the source of the vaccine was not confirmed. (iii) The use of Chinese COVID-19 vaccines in Japan is not approved (as of 10th of February 2021), nevertheless Japanese media report that Chinese vaccines are entering the market. In November 2020, 18 people were allegedly vaccinated with doses of a smuggled vaccine, for 10,000 yen. The article also mentions someone being vaccinated in a clinic with “*China National Pharmaceutical Group*” (Sinopharm) vaccine for 60,000 yen for two doses.

2.4 Attempts and hacking of COVID-19 vaccine data

In addition to the incidents of SF COVID-19 vaccines registered on the MQM Globe (and reported in Tables 1 and 2), several articles were published on theft of data on COVID-19 vaccines.

In November 2020 an article discussed state-backed hackers in Russia, North Korea and China, the hackers target COVID-19 vaccine research, including Pfizer/BioNTech.

- Bajak F. **Microsoft: Russian, North Korean hackers target vaccine work.** *APnews*. <https://apnews.com/article/microsoft-russia-north-korea-vaccines-efc925638332b4a42d06d36066802d33>. Published November 13, 2020. Accessed March 12, 2021.

In Europe Pfizer/BioNTech COVID-19 vaccine data were stolen in December 2020. Prior to leaking, the hackers allegedly manipulated the data.

- 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.

In February 2021, South Korea Intelligence officials communicated that North Korea tried to steal Pfizer/BioNTech COVID-19 vaccine and treatment technology from Pfizer. We did not find details as to whether the attempt was successful.

- Denyer S. **North Korea tried to steal Pfizer coronavirus vaccine information, South says.** The Washington Post. https://www.washingtonpost.com/world/asia_pacific/north-korea-pfizer-coronavirus-vaccine-hack/2021/02/16/c09ec7fc-702e-11eb-8651-6d3091eac63f_story.html. Published February 16, 2021. Accessed March 15, 2021.

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_Compendium_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. »

February 2021

- **Europol. COVID-19 chiefs of police working group meets to talk pandemic and fighting crime threats .** Newsroom. Published February 15, 2021. Accessed March 5, 2021. <https://www.europol.europa.eu/newsroom/news/covid-19-chiefs-of-police-working-group-meets-to-talk-pandemic-and-fighting-crime-threats>

Extract. « As the pandemic has changed the landscape of crime, law enforcement has had to adapt their approaches to the accelerated shifts in criminal modi operandi and market focus. The COVID-19 chiefs of police working group is an important initiative for law enforcement agencies to work together in monitoring the situation and coordinating the appropriate responses. [...] Some of the priority areas discussed: the risks of criminals taking advantage of vaccination campaigns rolling out across the world to sell fake vaccines. Although still limited, some offers of fake vaccines have appeared on the dark web. »

- **European Anti-Fraud Office. OLAF warns against fraudsters offering COVID-19 vaccines.** Press release No7/2021. https://ec.europa.eu/anti-fraud/media-corner/news/15-02-2021/olaf-warns-against-fraudsters-offering-covid-19-vaccines_en. Published February 15, 2021. Accessed March 10, 2021.

Extract. « The European Anti-Fraud Office (OLAF) has warned governments to be on their guard against offers to provide them with COVID-19 vaccines. These offers are very often fake, and should be reported. [...] We are hearing reports of fraudsters offering to sell vaccines to governments across the EU. These offers come in many different forms. For example, fraudsters may offer to sell large quantities of vaccines, deliver a sample in order to pocket the first advance payment and then vanish with the money. They may deliver batches of fake vaccines. Or they falsely may purport to represent legitimate business and claim to be in the possession of or have access to vaccines. »

March 2021

INCIDENT

- **Interpol. Fake COVID vaccine distribution network dismantled after INTERPOL alert.** News. Published March 3, 2021. Accessed March 3, 2021. <https://www.interpol.int/en/News-and-Events/News/2021/Fake-COVID-vaccine-distribution-network-dismantled-after-INTERPOL-alert>

Extract. « South African authorities have seized hundreds of fake COVID-19 vaccines following a global alert issued by INTERPOL warning vaccines would be a prime target for criminal networks. Some 400 ampoules - equivalent to around 2,400 doses - containing the fake vaccine were found at a warehouse in Germiston, Gauteng, where officers also recovered a large quantity of fake 3M masks and arrested three Chinese nationals and a Zambian national. In China, police successfully identified a network selling counterfeit COVID-19 vaccines, raided the manufacturing premises, resulting in the arrest of some 80 suspects, and seized more than 3,000 fake vaccines on the scene. »

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., hydroxycloquine), 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. »

[Preprint] Bracci A, Nadini M, Aliapoulos M, et al. **Dark Web Marketplaces and COVID-19: The vaccines.** Published online February 26, 2021. Accessed March 11, 2021. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3783216

Abstract. « The ongoing COVID-19 vaccination campaign has so far targeted less than 3% of the world population, and even in countries where the campaign has started many citizens will not receive their doses for many months. There is clear evidence that previous shortages of COVID-19 related goods (e.g., masks and COVID-19 tests) and services pushed customers, and vendors, towards illicit online trade occurring on dark web marketplaces. Is this happening also with vaccines? Here, we report on our effort to continuously monitor 102 dark web marketplaces. By February 26, we found 33 listings offering a COVID-19 vaccine, seven of which offering officially approved vaccines. The number of currently active listings is 11, including one listing selling the Pfizer/BioNTech vaccine, one listing the AstraZeneca/Oxford vaccine, and 9 listings selling vaccines of unspecified type. Illicit trade of uncertified COVID-19 vaccines poses a concrete threat to public health and risks to undermine public confidence towards vaccination. »

Jung J. **Preparing for the Coronavirus Disease (COVID-19) Vaccination: Evidence, Plans, and Implications.** J Korean Med Sci. 2021;36(7). doi:10.3346/jkms.2021.36.e59

Extract. « Major countries are operating vaccine safety monitoring systems, but are strengthening their organizations and systems specifically to respond to COVID-19. The United States has already established a surveillance system, such as V-safe, and the baseline of adverse reactions is constantly being monitored and measured through the vaccine safety datalink. The UK collects vaccine adverse events through the 'yellow card scheme' and has created a specialized internet-based reporting tool for COVID-19. [...] The Yellow Card Scheme, The Medicines and Healthcare products Regulatory Agency: The system collects and monitors information on safety concerns about medicines, medical devices and e-cigarettes. This includes all adverse events as well as

concerns related to product quality or counterfeit products. System contains COVID-19 yellow card reporting page. »

Valcheva KS. **Prosecution and public awareness: key lines of defence against falsified medicinal products during pandemic.** Knowl - Int J. 2020;40(1):279-284. Accessed March 12, 2021. <https://ikm.mk/ojs/index.php/KIJ/article/view/3895/3745>

Extract. « The medicinal shortages combined with the lack of awareness in the society pose serious threat as panicked people turn to unauthorised and dangerous sources to buy pharmaceuticals and medical products. Their irrational and dangerous behaviour facilitate and significantly contribute to the uncontrolled spread of fakes as Internet provides perfect conditions for the unscrupulous dealers. The public is overwhelmed by a constant flow of disinformation that contain misleading and potentially dangerous recommendations and online offers for —miracle cures|. The disrupted legitimate supply chains provide further options for illegal structures to exploit the fear of the society and profiteer from the global crisis. [...] If policymakers engage more actively to strengthen their legal and regulatory frameworks against falsified medicinal products, their efforts would result in better preparedness and response in case of future health crises and in increased trust in governments and healthcare systems. »

5. Regulatory authorities

This section is work in progress and many further reports need to be added. In this section we include warnings published on websites of from regulatory authorities. Several lay press articles report on warnings coming from regulatory authorities, however we do not include those lay press articles in this section. Please have a look at the lay press articles in the annexes, some of them refer to information coming from regulatory authorities.

We do not include the regulatory alerts on specific incidents. Some regulatory authorities are sharing information on specific incidents for example Mexico but the regulatory authorities of many countries do not disclose this information publicly.

Swiss Agency for Therapeutic Products. **Swissmedic warns of the danger of buying vaccines or other medicines online.** *Human medicines, Market surveillance.* https://www.swissmedic.ch/swissmedic/en/home/humanarzneimittel/market-surveillance/medicinal-products-from-the-internet/warnings-related-to-medicinal-products-from-the-internet/impfstoffe_internet.html. Published January 11, 2021. Accessed March 11, 2021.

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

In this section we report on organisations, associations or writers that are highlighting the risk or threat of SF COVID-19 vaccines but that are not necessarily covered in our MQM Globe database, which mainly holds articles published in Google News.

Year 2020

- 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

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.* »

- 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.»

- **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. »

Year 2021

- **Krähenbühl C. COVID vaccines “a test of resilience” for FMD anti-counterfeiting. Securing Industry.** Published January 12, 2021. Accessed March 1, 2021. <https://www.securingindustry.com/pharmaceuticals/covid-vaccines-a-test-of-resilience-for-fmd-anti-counterfeiting/s40/a12767/#.YDzShGhKgml>

Extract. « *We at Excellis are concerned that a perfect storm is going to hit the industry. A combination of new players, dispensing large numbers of products in non-standard scenarios and at locations where the scanning technology and processes have not yet been established as routine, is highly likely to generate a spike of EU-FMD alerts that manufactures need to deal with. There is a real concern that many manufacturers are even today ill-prepared to deal with the routine number of EU-Alerts in timely manner and that they will be swamped by a flood of new alerts that are likely to arise due to technical issues, processing errors and – inevitably – human error. Ignoring these alerts, even if the vast majority are going to be false alerts, is not an option and manufacturers must ensure that their organisation and processes are ready to scale and flex up to this additional challenge they face once the vaccine roll-out begins in earnest. »*

- **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.

- Taylor D. **Experts Warn Crime Gangs Capable of Selling Fake Vaccines.** Voanews. <https://www.voanews.com/covid-19-pandemic/experts-warn-crime-gangs-capable-selling-fake-vaccines>. Published February 26, 2021. Accessed March 12, 2021.

Extract. « *International crime fighting agencies say organized crime groups have all the networks and methods needed to smuggle falsified, substandard and stolen COVID-19 vaccines across Africa. [...] Meyer says there won’t be enough vaccines, and as infection rates and deaths spike in some countries, criminals will introduce fakes into supply chains. [...] Ho Tu Nam said criminal organizations have been waiting eagerly for immunization programs to start, and for vaccine shortages. “Now people are aware that the vaccine exists; people know it’s being rolled out in certain countries, and I think it’s a perfect time for those syndicates to come in and say, ‘We have the vaccine; you’re not getting it in the hospitals, you’re not getting it in your private clinics, so come to us.’” she said. And they have been successful in the past. Schneider says groups dealing in black market vaccines do their best to make their products look legitimate. »*

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 in English and was automatically generated for the period of the 1st of November 2020 to the 5th of March 2021.

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

March 15, 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	2021-03-05
Language	en
Report type	general
Curation status	validated
Number of Reports	102

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

Publication date	2021-02-06
Create date	2021-02-08
Score	19.89
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	18.43
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 coloradopolitics.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
871072	Colorado attorney general issues warning about COVID-19 vaccination scams	Link
886685	Be on the lookout for COVID-19 vaccine scams: Laws prohibit sale or advertising of fake COVID-19 vaccinations	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	18.18
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
890849	Beware of fake Covid-19 vaccines: When, where and how to receive the genuine vaccine?	Link
925594	Swiss regulator warns of fake Covid-19 vaccines online	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 Be Wary of COVID-19 Vaccine-Related Scams

Publication date	2021-02-16
Create date	2021-02-19
Score	18.14
Report id	944092
Category	Vaccine
Quality	Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: Be Wary of COVID-19 Vaccine-Related Scams South Florida Reporter

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

Table 9: Places for report 944092

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Florida	28.75054	-82.5001

Table 10: Drugs for report 944092

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 11: Other Stories

ID	Title	Link
944093	Beware of COVID-19 vaccine scams News	Link
946242	Scam alert: Fake Vaccine Appointments Come with Lasting Side Effects	Link
955304	Feds warns of COVID scams Mile Markers keysnews.com	Link
968339	Feds warn of COVID scams Mile Markers keysnews.com	Link

Notes: The total number of doses of COVID-19 vaccines administered statewide now outpace

the number of Floridians who have been reported to have contracted the novel coronavirus. With the rollout of vaccines and the increasing number of individuals seeking to secure them, scammers have devised multiple methods attempting to take advantage of vaccination distribution, according to Florida Attorney General Ashley Moody.[...]

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

Publication date	2020-12-29
Create date	2020-12-31
Score	17.99
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 12: Places for report 867095

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

Table 13: Drugs for report 867095

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 14: Other Stories

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

6 BOC warns public against locally-made fake COVID-19 vaccines - UNTV News

Publication date	2021-02-17
Create date	2021-02-19
Score	17.96
Report id	943674
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: BOC warns public against locally-made fake COVID-19 vaccines - UNTV News UNTV News

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

Table 15: Places for report 943674

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

Table 16: Drugs for report 943674

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 17: Other Stories

ID	Title	Link
943825	3 BOC ports prepare for arrival of vaccines	Link

Notes: The Bureau of Customs (BOC) on Wednesday warned the public against the possible proliferation of locally-manufactured vaccines against novel coronavirus disease (COVID-19) as the government gears up for the rollout of its vaccination program. "BOC warns the public to be careful when availing of vaccines as fake vaccines may have severe health consequences to

users,” the bureau said in a statement. “The composition of such vaccines are not tested and even worse, fake vaccines may not be effective thus further exposing users to the dangers of COVID-19,” it added. [...]

7 FDA offers tips to avoid coronavirus vaccine scams

Publication date	2020-12-01
Create date	2020-12-07
Score	17.90
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 18: Places for report 827469

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

Table 19: Drugs for report 827469

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 20: Other Stories

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

8 NBI to strengthen monitoring of fake COVID-19 vaccines

Publication date	2021-02-05
Create date	2021-02-08
Score	17.90
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 21: Places for report 925590

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

Table 22: Drugs for report 925590

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 23: Other Stories

ID	Title	Link
932914	PNP, NBI urged: Crack down on fake vaccines	Link
933584	Police to track, arrest smugglers of illegal Covid-19 vaccine	Link
933682	PNP to monitor blackmarkets for counterfeit, unauthorized COVID-19 vax —Sinan	Link

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. [...]

9 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	17.70
Report id	899525
Category	Vaccine
Quality	Diverted/Unregistered
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 24: Places for report 899525

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

Table 25: Drugs for report 899525

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 26: Other Stories

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

10 Top Security Official Warns of COVID Vaccine Scams

Publication date	2020-12-18
Create date	2020-12-22
Score	17.68
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 27: Places for report 852814

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

Table 28: Drugs for report 852814

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 29: 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. [...]

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

Publication date	2021-01-09
Create date	2021-01-11
Score	17.45
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 30: Places for report 883836

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

Table 31: 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. [...]

12 EU police agency Europol warns of fake coronavirus vaccines

Publication date	2020-12-04
Create date	2020-12-07
Score	17.30
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 32: Places for report 831487

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 33: Drugs for report 831487

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 34: Other Stories

ID	Title	Link
831653	EU Police Agency Europol Warns of Fake Coronavirus Vaccines	Link
831698	EU police agency Europol warns of fake coronavirus vaccines - KTAB	Link
832071	European Union police agency Europol warns against counterfeit COVID-19 vaccines, fraud	Link
832810	Medical products regulator urges people to be vigilant for fake Covid-19 vaccines	Link
832819	Police warning over dangerous fake coronavirus vaccines	Link

Table 34: Other Stories(continued)

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
846125	EU police agency Europol warns of fake coronavirus vaccines	Link
853734	EU police agency Europol warns of fake coronavirus vaccines	Link
855959	Europol Warns COVID-19 Vaccine Rollout Vulnerable to Fraud, Theft	Link
861352	EU police agency Europol warns of fake coronavirus vaccines	Link
864173	Covid-19: Europol warns of fraudulent and fake vaccines	Link
864428	Europol warns of risk of coronavirus vaccine fraud - Europol warns of fraudulent and fake vaccines	Link
875835	Officials warn of fake COVID-19 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." [...]

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

Publication date	2020-12-02
Create date	2020-12-02
Score	16.92
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 35: Places for report 828283

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 36: Drugs for report 828283

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 37: Other Stories

ID	Title	Link
828317	Beware fake coronavirus vaccines, says Interpol	Link
828338	Organized criminal networks could be targeting COVID-19 vaccines, Interpol warns	Link
828428	Crime gangs threaten COVID-19 vaccine campaigns, Interpol warns	Link
828496	Interpol warns of organized crime threat to Covid-19 vaccines	Link
828595	Interpol warns international authorities about threat of fake Covid-19 vaccines	Link

Table 37: Other Stories(continued)

ID	Title	Link
828726	Interpol warning of fake, stolen vaccines TheHill	Link
828804	The Mafia Is Probably Going To Try To Get Their Hands On The COVID Vaccine	Link
828817	Interpol warns that criminals are primed to create fake Covid vaccines	Link
828877	COVID-19: Criminals could target vaccine supply chains or create fakes, Interpol warns	Link
829006	Fake COVID-19 vaccines warning issued, shots could be targeted by criminals: Interpol	Link
829124	Interpol warns world against coronavirus vaccine fraud by mob	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
829230	Interpol issues a global alert warning that criminal groups plan to target COVID-19 vaccines	Link
829283	Federal Investigators warn of counterfeit COVID-19 vaccine fraud	Link
829441	Interpol warns about fake, stolen COVID vaccines	Link
829537	Interpol warns that organized crime groups will likely try to steal 'liquid gold' COVID vaccines as well as pe	Link
829638	Beware of fake COVID-19 vaccine: Interpol's global alert on organised crime targeting vax, supply chain	Link
829645	Criminal networks could try to sell fake Covid-19 vaccines physically and on internet, warns Interpol	Link
829767	Beware! Criminal networks could try to sell fake COVID vaccines physically and on internet, warns Interpol	Link
829776	Covid-19 wrap: Global cases cross 63.37m, Interpol warns of vaccine criminals, mask guidelines tightened	Link
829933	Interpol warns criminals may sell fake Covid vaccine online	Link
830292	Interpol warns of organised crime threat to coronavirus vaccine via Orange Notice	Link
830541	Beware: There Are Fake, Stolen COVID-19 Vaccines Out There	Link
830656	COVID-19 vaccines could be targeted by crime groups, Interpol says	Link
830802	'Beware of fake COVID-19 vaccine', Interpol warns 194 nations	Link
833593	Coronavirus – Interpol warns organised crime gangs will be out to hijack 'liquid gold' Covid-19 vaccines	Link
834827	Interpol warns organised crime will target COVID-19 vaccines	Link
834948	Beware fake coronavirus vaccines, says Interpol	Link

Table 37: Other Stories(continued)

ID	Title	Link
837147	Interpol Warns The Mafia May Try To Steal COVID Vaccines, Sell Fake Ones	Link
837487	Interpol warns that COVID-19 vaccines could be targeted by criminals	Link
838432	How Will Government Deal With Fake Vaccine, Interpol Warns 194 Countries Uncut	Link
839696	Cyber Attackers Threaten COVID-19 Vaccine Distribution Chain Faegre Drinker Biddle & Reath LLP	Link
840426	Interpol on fake vaccine; India to see \$66 bn investment in gas infrastructure	Link
840522	Scots warned of Covid-19 scams including fake vaccines	Link
841193	COVID-19: Criminals could target vaccine supply chains or create fakes, Interpol warns	Link
841847	More COVID-19 scams: Criminal networks expected to pitch fake vaccines	Link
842242	Pfizer and BioNTech vaccine: Scots warned of Covid 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
845205	Police and public health working together to protect COVID-19 vaccine from 'sabotage,' says BC's top doc	Link
847192	Beware: There Are Fake, Stolen COVID-19 Vaccines Out There	Link
851422	Don't buy a fake vaccine online as it arrives in Mississauga next week	Link
853081	Report: Purported COVID-19 Vaccines Hit Dark Web	Link
855498	Pfizer and BioNTech vaccine: Scots warned of Covid scams including fake vaccines	Link
858038	MP govt tightens law against food, drug adulteration amid Interpol warning on fake Covid-19 vaccine	Link
858189	Beware: There Are Fake, Stolen COVID-19 Vaccines Out There	Link
859161	Could Fake Vaccine Criminals Be Thwarted By Technological Solutions?	Link
859523	Fake COVID-19 Vaccines are Already Being Sold Online	Link
860345	Crime gangs threaten Covid-19 vaccine campaigns, Interpol warns	Link
861168	Interpol: Vaccine Ushers an 'Onslaught' of Criminal Activity	Link

Table 37: Other Stories(continued)

ID	Title	Link
867092	Issue directions to Centre to prevent organized crime rackets around fake COVID-19 vaccines: Plea in Supreme Court - Bar & Bench	Link
867948	Interpol shares details of organised crime hand in fake vaccines found in SA	Link
872199	Interpol Warns Of Criminal Activities Related To Coronavirus Vaccines	Link
921273	Mexico says illicit labs are making fake COVID-19 vaccines	Link
958956	Beware! Criminal networks could try to sell fake COVID vaccines physically and on internet, warns Interpol	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’. [...]

14 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	16.86
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 38: Places for report 826177

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

Table 39: Drugs for report 826177

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 40: Other Stories

ID	Title	Link
830649	Beware of COVID-19 scams as vaccine approaches FDA approval - WIVB.com	Link
833191	Watch out for fake COVID-19 vaccines as drug companies near FDA approval, feds warn	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

Table 40: Other Stories(continued)

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

15 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	16.59
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 41: Places for report 917075

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

Table 42: 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. [...]

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

Publication date	2020-12-01
Create date	2020-12-08
Score	16.49
Report id	827582
Category	Vaccine
Quality	Diverted/Unregistered
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 43: Places for report 827582

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

Table 44: 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. [...]

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

Publication date	2020-12-18
Create date	2020-12-22
Score	16.29
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 45: Places for report 852866

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

Table 46: Drugs for report 852866

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 47: 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
852962	ICE investigations led to seizure of two websites posing as Covid vaccine companies	Link
854430	Scammers set up fake vaccine websites to trick people: DOJ - Business Insider	Link

Table 47: Other Stories(continued)

ID	Title	Link
855974	DOJ Seizes Fake Domains Impersonating Moderna, Regeneron	Link
856313	Officials shut down fake Moderna, Regeneron websites that allegedly stole users' info for cyberattacks	Link
951998	Covid-19 Vaccine Scams Grow, Leveraging Confusion About How to Get the Shot	Link
953015	COVID-19 vaccine scams on the rise: 4 things to know	Link
974872	Vaccine fraud growing problem in Maryland, Gov. Hogans warns	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. [...]

18 Coronavirus vaccine fraud warning issued to everybody in the UK

Publication date	2020-11-14
Create date	2020-11-16
Score	15.94
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 48: 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 49: Drugs for report 804181

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 50: 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 China Gives Unproven Covid-19 Vaccines to Thousands, With Risks Unknown

Publication date	2020-12-09
Create date	2021-01-10
Score	15.94
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 51: Places for report 880569

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

Table 52: 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. [...]

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

Publication date	2020-12-07
Create date	2020-12-08
Score	15.80
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 53: Places for report 835169

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

Table 54: 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. [...]

21 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	15.70
Report id	818704
Category	Other, Medical devices for disease prevention, Vaccine
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 55: Places for report 818704

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

Table 56: 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."

22 New Mexicans: Beware of COVID-19 Vaccine Scams

Publication date	2020-12-14
Create date	2020-12-15
Score	15.59
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 57: Places for report 846057

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

Table 58: Drugs for report 846057

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 59: Other Stories

ID	Title	Link
846292	Attorney General Hector Balderas Warns New Mexicans To Beware Of COVID-19 Vaccine Scams	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

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. [...]

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

Publication date	2021-01-15
Create date	2021-01-18
Score	15.51
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. [...]

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

Publication date	2020-12-16
Create date	2020-12-22
Score	15.47
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 63: Places for report 849478

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

Table 64: Drugs for report 849478

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 65: Other Stories

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

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

Publication date	2020-11-19
Create date	2020-11-23
Score	15.47
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 66: Drugs for report 811551

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 67: 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.

26 Black market starting to emerge amid coronavirus vaccine shortages

Publication date	2021-01-31
Create date	2021-03-11
Score	15.43
Report id	917172
Category	Other, Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: Black market starting to emerge amid coronavirus vaccine shortages ORegister

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

Table 68: Places for report 917172

Region Name	Country	Location	Latitude	Longitude
Americas	United States	New York City	40.71427	-74.00597
Americas	United States	Miami	25.77427	-80.19366
Americas	United States	California	37.25022	-119.75126

Table 69: Drugs for report 917172

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 70: Other Stories

ID	Title	Link
960587	Black market starting to emerge amid coronavirus vaccine shortages	Link

Notes: In Miami, priority access to COVID vaccines was dangled as a lure to big hospital donors.

In New York, hospital workers laboring from home cut in front of their frontline colleagues on

the COVID-19 vaccine line.

In California, teachers at the wealthy Los Gatos Union School District were urged — by their superintendent — to masquerade as health care workers to get vaccines ahead of schedule.

Scarcity of vaccines amid a deadly global pandemic is fueling fears of a black market that could inflict great harm on public health and confidence, where potentially stolen, spoiled or fake vaccine is sold to those who can afford to pay while the real thing is in short supply in communities most heavily impacted by COVID, experts said. [...]

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

Publication date	2020-12-05
Create date	2020-12-08
Score	15.40
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 71: 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 72: Drugs for report 832466

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 73: 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." [...]

28 Conicet denies that ivermectin works as a cure

Publication date	2021-02-22
Create date	2021-02-23
Score	15.39
Report id	950380
Category	Veterinary medicines, Antiparasitic
Quality	Not Directly Relevant
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Conicet denies that ivermectin works as a cure Explica

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

Table 74: Places for report 950380

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 75: Drugs for report 950380

Medicine Name	Medicine Class	Action	ATC Code
ivermectin	Other dermato- logicals	other dermatological preparations	D11AX22
ivermectin	Avermectines	antinematodal agents	P02CF01

Notes: Scientists Conicet they denied that the Ivermectin have a greater effect to vaccines in cases of coronavirus and came out at the crossroads of messages that circulate on whatsapp and other social networks, from the Twitter account Science Anti-Fake News – COVID-19 .

For some time now, it has been circulating on social networks and messaging services, mainly Whatsapp, a series of publications and message chains that ensure that the drug popularly known as ivermectin it works better than any vaccine. Supposedly this drug not only would be able to prevent disease, as a vaccine would, it is also capable of cure infected people. [...] The experts were blunt: Lhe results available so far are not sufficient to ensure that ivermectin is effective to prevent or treat COVID-19 , they confirmed from the Twitter account dedicated to combating misinformation about the pandemic. [...]

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

Publication date	2020-12-29
Create date	2021-01-25
Score	15.32
Report id	907362
Category	Vaccine
Quality	Diverted/Unregistered
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 76: Places for report 907362

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

Table 77: 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. [...]

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

Publication date	2020-12-07
Create date	2020-12-08
Score	15.32
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 78: Places for report 835384

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

Table 79: Drugs for report 835384

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 80: Other Stories

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

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

Publication date	2021-01-14
Create date	2021-01-15
Score	15.30
Report id	891753
Category	Other, Medical device for screening/diagnosis/monitoring, Vaccine
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 81: Places for report 891753

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

Table 82: 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. [...]

32 Angola: Minister Warns Against Fake Covid-19 Vaccines

Publication date	2020-12-08
Create date	2020-12-10
Score	15.25
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 83: Places for report 836086

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

Table 84: 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. [...]

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

Publication date	2021-01-15
Create date	2021-01-18
Score	15.25
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 85: Places for report 892904

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

Table 86: Drugs for report 892904

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 87: 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

34 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	15.24
Report id	925693
Category	Medical devices for disease prevention, Vaccine, Anti-malarial
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
925964	US Customs has seized millions of counterfeit N95s; here's how to spot a fake.	Link
926536	Fake N95 masks have flooded the market. Here's how to tell the difference	Link
926720	Fake N95 masks have flooded the market. Here's how to tell the difference - Local News 8	Link
928430	U.S. Customs has seized millions of counterfeit N95s. Here's how to spot a fake.	Link

Table 90: Other Stories(continued)

ID	Title	Link
928782	US Customs Has Seized Millions Of Counterfeit N95s	Link
945683	A Counterfeit N95 Mask Can Increase Your COVID Infection Risk—Here’s How to Know Yours Is Legit	Link
945766	The CDC Just Issued a Warning About KN95 Masks	Link
946478	China-made fake N95 masks are flooding market, here’s what to look for	Link
946556	Fake N95 masks are flooding the market here is what to look for	Link
947534	How to Spot a Fake N95	Link
947608	Counterfeit N95s are out there: How to avoid getting duped	Link
947848	Counterfeit N95 masks are flooding the market — here’s how to tell if yours is fake	Link
950341	COVID-19 : Counterfeit masks: what is their effectiveness and how to distinguish them from the originals	Link
955474	Is your N95 mask legit? How to spot a counterfeit mask	Link
958696	N95 masks are the best. But if you manage to get one, it might be a fake.	Link
959617	How to Tell if an N95 Mask Is Legit Amid Influx of Counterfeits	Link
967849	Fake N95 masks have flooded the market. Here’s how to tell the difference	Link
970605	How to Identify Fake N95 Masks	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. [...]

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

Publication date	2021-01-18
Create date	2021-01-19
Score	15.21
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 91: Places for report 898068

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

Table 92: Drugs for report 898068

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 93: 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.

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

Publication date	2020-11-24
Create date	2020-12-08
Score	15.16
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 94: Places for report 816574

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 95: 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. [...]

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

Publication date	2020-12-07
Create date	2020-12-08
Score	15.15
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 96: Places for report 835660

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 97: Drugs for report 835660

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 98: Other Stories

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

38 Consumer Alert: Watch out for counterfeit COVID-19 vaccine offers

Publication date	2021-02-20
Create date	2021-02-23
Score	15.04
Report id	948539
Category	Vaccine
Quality	Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: Consumer Alert: Watch out for counterfeit COVID-19 vaccine offers EIN News

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

Table 99: Places for report 948539

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Raleigh	35.7721	-78.63861

Table 100: Other Stories

ID	Title	Link
952910	Robocalls, student loan forgiveness, and fake vaccines: Top concerns from NC's Attorney General	Link

Notes: As North Carolina continues to administer vaccines to people across the state, please be on the lookout for offers for unapproved or counterfeit vaccines. Here's what you should know about these offers and about other COVID-19 vaccine scams: [...]

39 Drug admin asked to prevent fake COVID-19 vaccine

Publication date	2021-01-24
Create date	2021-01-25
Score	15.01
Report id	906293
Category	Medical devices for disease prevention, Vaccine
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 101: Places for report 906293

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

Table 102: 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. [...]

40 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	14.94
Report id	849570
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
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 103: Places for report 849570

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

Table 104: Drugs for report 849570

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 105: Other Stories

ID	Title	Link
849722	Health Canada warns of counterfeit COVID-19 vaccines sold online	Link
849821	COVID-19 Update: 1,270 new cases, 16 deaths Health Canada warns of counterfeit vaccines sold online	Link
850747	Watch For Bogus Online COVID Vaccines	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

Table 105: Other Stories(continued)

ID	Title	Link
851081	COVID-19 vaccine: Do not buy counterfeit doses, Health Canada warns	Link
851266	Health Canada warning: Do not buy counterfeit COVID-19 vaccines	Link
851550	Health Canada warns private buyers about counterfeit vaccine dangers	Link
859299	Health Canada warns private buyers about counterfeit vaccine dangers	Link
859686	Health Canada warning: Do not buy counterfeit COVID-19 vaccines	Link
867523	COVID-19: Officials warn of online scams advertising vaccine for sale	Link
880628	Health Canada issues counterfeit COVID-19 vaccine advisory	Link
889906	Police, Health Canada warn of counterfeit COVID-19 vaccine	Link
911458	Health Canada warns that COVID-19 vaccines sold online could do more harm than good – Barrie 360	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. [...]

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

Publication date	2020-12-16
Create date	2020-12-22
Score	14.89
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 106: Places for report 849572

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

Table 107: Drugs for report 849572

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 108: 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." [...]

42 FBI warns Nevadans about COVID-19 scams

Publication date	2021-02-23
Create date	2021-02-26
Score	14.88
Report id	953354
Category	Vaccine, Medical device for screening/diagnosis/monitoring
Quality	Falsified
Source	Unknown
Curation	Manually curated
Incident or General	General

Snippet: FBI warns Nevadans about COVID-19 scams KRNv

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

Table 109: Places for report 953354

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Nevada	39.25021	-116.75119

Table 110: Drugs for report 953354

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] The FBI saw scammers trying to sell COVID tests and even fake cures online. [...] Some of the newer scams being seen online are paying for a COVID-19 vaccine or for the chance get a vaccine. [...]

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

Publication date	2020-11-10
Create date	2020-12-08
Score	14.87
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 111: Places for report 799629

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 112: 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. [...]

44 Mexico probes coronavirus vaccine theft from hospital

Publication date	2021-01-20
Create date	2021-02-16
Score	14.83
Report id	938479
Category	Vaccine
Quality	Diverted/Unregistered
Source	Other
Curation	Manually curated
Incident or General	General

Snippet: Mexico probes coronavirus vaccine theft from hospital FRANCE 24

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

Table 113: Places for report 938479

Region Name	Country	Location	Latitude	Longitude
Americas	Mexico	Mexico City	19.42847	-99.12766

Table 114: Drugs for report 938479

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Mexican authorities are investigating the theft of several coronavirus vaccines from a public hospital, the army said Tuesday, underscoring the challenges of distributing the shots across the crime-plagued country.

Mexico, which has one of the world's highest Covid-19 death tolls, has deployed the military to guard the vaccines and prevent them falling into criminals' hands.

The army said that the stolen vaccines were under the control of a public health institution in a hospital in central Morelos state whose security is overseen by a private company.

"This theft could have been a dishonest act of self-interest by a member of the hospital's vaccination team," it said in a statement.

The Mexican government has promised to make vaccinations available free of charge across the country of almost 129 million people – a massive logistical challenge – starting with frontline health workers.

There have been a handful of reported cases of queue-jumping, including a hospital manager

who was sanctioned for being immunized along with his family.

45 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	14.82
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 115: Places for report 832881

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

Table 116: Drugs for report 832881

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 117: Other Stories

ID	Title	Link
833110	BBB Scam Alert: A COVID-19 vaccine is on the way. So are the scams.	Link
835803	Post from Community: BBB Scam Alert: Watch out for COVID-19 vaccine scams	Link
835913	COVID-19 vaccine scams at center of new crime-fighting effort	Link
836971	BBB Reports Fake Coronavirus Vaccine Scam 1290 WJNO Florida News	Link

Table 117: Other Stories(continued)

ID	Title	Link
837145	Better Business Bureau warning people of potential COVID-19 vaccine scams	Link
837266	BBB Scam Alert: Watch Out for COVID-19 Vaccine Scams	Link
838442	SCAM ALERT: BBB warns Americans about fake COVID-19 vaccine scams	Link
838878	BBB warns about scams related to COVID vaccines The Henrico Citizen	Link
842595	BBB warns against fake COVID-19 vaccine scams	Link
844679	Straight Talk: A COVID-19 vaccine is on the way. So are the scams.	Link
844893	VOICES: Beware of COVID-19 vaccine scams	Link
844930	Better Business Bureau warning people of potential COVID-19 vaccine scams	Link
845063	Consumer advocates expect COVID-19 vaccine scams in coming weeks	Link
845120	COVID vaccine scams: Better Business Bureau warns of scammers exploiting consumers	Link
845156	COVID vaccine scams: Better Business Bureau warns of fake vaccines, early access to doses, exploiting consumers	Link
845971	Scam alert: Watch out for fake Covid vaccine sales	Link
846140	SCAM ALERT: BBB warns Americans about fake COVID-19 vaccine scams	Link
846351	How to Spot a COVID-19 Vaccine Con, According to the BBB	Link
846495	Consumer Alert: As Covid-19 vaccines roll out, BBB warns consumers about fake vaccine sales	Link
847326	Better Business Bureau: 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
848038	Better Business Bureau warns of COVID-19 fake vaccine scams	Link
848109	How to protect yourself from a COVID-19 vaccine scam	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
848256	Scammers taking advantage of news of COVID vaccine. Here's what to watch out for	Link
849500	BBB Scam Alert: A COVID-19 Vaccine is on the Way and So are the Scams.	Link
849520	Protect yourself from COVID vaccine scams	Link

Table 117: Other Stories(continued)

ID	Title	Link
849597	BBB Scam Alert: A COVID-19 vaccine is on the way. So are the scams.	Link
849988	How to avoid COVID-19 vaccine schemes	Link
850705	Scam Alert: Fake COVID-19 vaccines, online puppy sales, and more	Link
850759	Scam Alert: Fake COVID-19 vaccines, online puppy sales, and more - WGN Radio	Link
850962	Scammers offering fake, early COVID-19 vaccine access: public health officials TheHill	Link
851269	BBB warns of COVID-related and holiday scams	Link
851316	BBB warns not to fall for COVID-19 vaccine scams	Link
851410	BBB: Beware fake COVID-19 vaccine scams trying to steal your money	Link
851636	Scammers start using COVID-19 vaccine to target people	Link
852521	Health, consumer experts warn of fraudulent COVID-19 tests	Link
853086	Avoid the Scam: COVID-19 Vaccines Offer Scammers a Shot at Consumers	Link
853420	Be mindful of COVID-19 vaccine scams	Link
854168	As COVID-19 vaccines rollout, BBB warns of scams	Link
854413	COVID-19 vaccines are on the way....But so are scams	Link
855013	Better Business Bureau warning people of potential COVID-19 vaccine scams	Link
856503	DEFENDERS: Look out for scammers selling fake vaccines	Link
861580	BBB Scam Alert: A COVID-19 vaccine is on the way. So are the scams.	Link
864828	BBB CONSUMER TIPS: A COVID-19 vaccine is on the way. So are the scams	Link
866237	BBB: A COVID-19 vaccine is on the way — so are the scams	Link
867367	Up next: COVID-19 vaccination scams	Link
867539	Vaccination Scammers Stealing Personal Info	Link
868036	County warns of scams as vaccine distribution plans take shape	Link
881015	COVID-19 scams: Cybersecurity experts warn of coronavirus vaccine scams sent by text, email	Link
912140	BBB Alert: A COVID-19 Vaccine is Available, so Scams May Follow – WKTN	Link
945887	Better Business Bureau warns about potential COVID-19 scammers	Link
948782	Warning: Covid-19 Vaccine Scams Are Clever And Tenacious	Link
954722	BBB warns of COVID-19 scams	Link

Table 117: Other Stories(continued)

ID	Title	Link
963102	BBB sends out a warning about vaccine scams	Link
976065	Online purchase scams identified as riskiest scam by Better Business Bureau	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. [...]

46 Indonesian Police React to Fake Covid-19 Vaccines Found in China, South Africa

Publication date	2021-03-05
Create date	2021-03-09
Score	14.80
Report id	967027
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: Indonesian Police React to Fake Covid-19 Vaccines Found in China, South Africa
English Tempo.co

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

Table 118: Places for report 967027

Region Name	Country	Location	Latitude	Longitude
South-Eastern Asia	Indonesia	Republic of Indonesia	-5	120

Table 119: Drugs for report 967027

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The Indonesian National Police (Polri) announced that it will enact preventive measures against fake Covid-19 vaccines from entering the country.

”Surely Polri will back up the preventive measures against those counterfeit vaccines,” said the National Police spokesperson Brig. Gen. Rusid Hartono at his office in South Jakarta on March 5.

He said that police have yet received any information of a possible counterfeit vaccines circulating here but ensures that police will act quickly if they find one.

Hartono warned that the authorities will not hesitate to take action on people attempting to exploit the Covid-19 pandemic. [...]

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

Publication date	2021-01-08
Create date	2021-02-03
Score	14.79
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 120: Places for report 918701

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

Table 121: 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. [...]

48 Inside Govt Plan to Prevent Theft of Covid-19 Vaccines

Publication date	2021-03-01
Create date	2021-03-03
Score	14.75
Report id	962251
Category	Vaccine
Quality	Diverted/Unregistered
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Inside Govt Plan to Prevent Theft of Covid-19 Vaccines Kenyans.co.ke

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

Table 122: Places for report 962251

Region Name	Country	Location	Latitude	Longitude
Eastern Africa	Kenya	Republic of Kenya	1	38

Table 123: Drugs for report 962251

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: The Head of Covid-19 vaccine advisory taskforce Chairman Willis Akhwale stated that the imported vaccines would be easily traced once they arrive in the country.

”The batches will be equipped with barcodes that will help in serialisation and traceability of the vaccines,” he explained.

He, however, revealed that once the batches are open and individual vials removed, the Ministry would not have the capacity to track the individual doses. [...]

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

Publication date	2020-12-28
Create date	2020-12-29
Score	14.73
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 124: Places for report 866239

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

Table 125: Other Stories

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

Notes: SHARE TWEET SHARE SHARE EMAIL 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. [...]

50 Experts express need for traceability of COVID-19 vaccines

Publication date	2020-11-26
Create date	2020-11-27
Score	14.70
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 126: Places for report 819767

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 127: 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. [...]

51 COVID-19 vaccine scam: Australians urged to to watch out as jab rollout begins

Publication date	2021-02-17
Create date	2021-02-19
Score	14.69
Report id	944850
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: COVID-19 vaccine scam: Australians urged to to watch out as jab rollout begins
7NEWS.com.au

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

Table 128: Places for report 944850

Region Name	Country	Location	Latitude	Longitude
Melanesia	Australia	Commonwealth of Australia	-25	135

Table 129: Other Stories

ID	Title	Link
949851	Coronavirus scammers prepare to target Australians over vaccine rollout, experts warn	Link

Notes: Australians are being warned to watch out for COVID-19 scams as the country starts its vaccination rollout.

Fake vaccine scam have already cost victims millions of dollars overseas - and now cybersecurity experts fear fraudsters will pounce on vulnerable Aussies. [...]

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

Publication date	2021-01-07
Create date	2021-01-08
Score	14.67
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 130: Drugs for report 880319

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 131: 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." [...]

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

Publication date	2021-01-06
Create date	
Score	14.64
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 132: Places for report 917847

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

Table 133: Drugs for report 917847

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes:

54 Interpol targets criminal gangs selling fake COVID-19 vaccines

Publication date	2021-01-15
Create date	2021-01-18
Score	14.64
Report id	893535
Category	Vaccine
Quality	Diverted/Unregistered
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 134: Places for report 893535

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 135: 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.” [...]

55 Ashley Moody Warns Floridians of COVID-19 Vaccine-Related Scams

Publication date	2021-02-16
Create date	
Score	14.59
Report id	944097
Category	Vaccine
Quality	Diverted/Unregistered
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Ashley Moody Warns Floridians of COVID-19 Vaccine-Related Scams Florida Daily

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

Table 136: Places for report 944097

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Florida	28.75054	-82.5001

Table 137: Drugs for report 944097

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes:

56 Cybersecurity experts warn hackers may try to disrupt vaccine distribution systems

Publication date	2021-02-12
Create date	2021-02-15
Score	14.55
Report id	936939
Category	Vaccine
Quality	Diverted/Unregistered
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Cybersecurity experts warn hackers may try to disrupt vaccine distribution systems
WJHL-TV News Channel 11

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

Table 138: Places for report 936939

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

Table 139: Drugs for report 936939

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: As the government prepares to distribute COVID-19 vaccines to U.S. retailers and pharmacies, cybersecurity experts are warning hackers will instantly get more chances to disrupt the vaccine distribution system.

Retailers and pharmacies nationwide say they're preparing for a fresh round of "bot" attacks expected to target the COVID-19 vaccine supply chain. [...] Now, the stakes are infinitely higher. The bots would specifically target appointments for the COVID-19 vaccines, with the goal of undermining national security, the health of Americans, and their confidence in the system. [...]

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

Publication date	2021-01-18
Create date	2021-01-19
Score	14.51
Report id	896816
Category	Vaccine
Quality	Diverted/Unregistered
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 140: Places for report 896816

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

Table 141: 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. [...]

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

Publication date	2020-11-20
Create date	
Score	14.50
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 142: Places for report 811772

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 143: Drugs for report 811772

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

Notes:

59 Dr Noor Hisham: Allowing firms to sell Covid-19 vaccines may encourage 'queue cutting', emergence of fake vaccines

Publication date	2021-02-26
Create date	2021-03-01
Score	14.50
Report id	957446
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Dr Noor Hisham: Allowing firms to sell Covid-19 vaccines may encourage 'queue cutting', emergence of fake vaccines The Star Online

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

Table 144: Places for report 957446

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

Table 145: Drugs for report 957446

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 146: Other Stories

ID	Title	Link
965728	Beware of fake Covid-19 vaccines being sold online — Dr Noor Hisham	Link
965730	Noor Hisham warns of fake Covid vaccines sold online	Link
966095	Beware of fake Covid-19 vaccines — Dr Noor Hisham	Link

Notes: Allowing private companies to sell Covid-19 vaccines may encourage "queue cutting" and

the emergence of fake vaccines, says Health director-general Tan Sri Dr Noor Hisham Abdullah. [...] "The fear is that if we allow commercialisation of the vaccines, there will be queue cutting, and fake vaccines may emerge, " said Dr Noor Hisham during a virtual engagement session with the media on Friday (Feb 26). [...]

60 Experts Warn of COVID-19 Vaccine Scams

Publication date	2020-12-09
Create date	2020-12-11
Score	14.48
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 147: Places for report 837701

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

Table 148: Drugs for report 837701

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 149: Other Stories

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

61 Latest monitoring data confirms safety of COVID-19 vaccines

Publication date	2021-02-05
Create date	2021-02-08
Score	14.43
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 150: Places for report 925789

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

Table 151: 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. [...]

62 Pharmacists concerned for safety as robberies increase and COVID vaccine rollout begins

Publication date	2021-02-25
Create date	2021-02-26
Score	14.38
Report id	956330
Category	Vaccine
Quality	Diverted/Unregistered
Source	Private pharmacy
Curation	Manually curated
Incident or General	General

Snippet: Pharmacists concerned for safety as robberies increase and COVID vaccine rollout begins CTV Toronto

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

Table 152: Places for report 956330

Region Name	Country	Location	Latitude	Longitude
Americas	Canada	Calgary	51.05011	-114.08529

Table 153: Drugs for report 956330

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: As Calgary pharmacists prepare to roll out doses of COVID-19 vaccines, many are concerned for the safety of their staff and customers due to a large spike in robberies. [...] Fareeby adds that several of his pharmacy friends were also robbed and many are scared as doses of COVID-19 vaccine will soon be administered at several pharmacies across Calgary. [...]

63 Montgomery County warns residents about COVID-19 scams

Publication date	2021-02-19
Create date	2021-02-22
Score	14.30
Report id	946822
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Montgomery County warns residents about COVID-19 scams WUSA9.com

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

Table 154: Places for report 946822

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Maryland	39.00039	-76.74997

Table 155: Drugs for report 946822

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 156: Other Stories

ID	Title	Link
947099	Office of Consumer Protection Warns of COVID-19 Vaccine Scams	Link
947299	COVID-19 Scams Surge Amid Vaccine Rollout, Officials Warn	Link

Notes: [...] The Montgomery County Office of Consumer has been working to provide information to residents about how to identify these COVID-19 scams.

According to the consumer awareness office for the county, among the scams identified are ones regarding bogus products, testing sites and vaccine availability. The scams are being directed

toward consumers via email, texting and telephone. In most cases, the attention-getting scams seek to have innocent residents provide the scammers with funds for services or products that do not actually exist. In other cases, fake or stolen vaccines may be offered on the "darknet."
[...]

64 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	14.28
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 157: Places for report 834837

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

Table 158: Drugs for report 834837

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 159: 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. [...]

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

Publication date	2021-01-25
Create date	2021-01-28
Score	14.27
Report id	909078
Category	Medical devices for disease prevention, Medical device for screening/diagnosis/monitoring
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 160: Places for report 909078

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

Table 161: 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); [...]

66 Criminals fiddled stolen Covid-19 vaccine data to damage trust

Publication date	2021-01-19
Create date	2021-02-15
Score	14.25
Report id	936943
Category	Vaccine
Quality	Diverted/Unregistered
Source	Other
Curation	Manually curated
Incident or General	General

Snippet: Criminals fiddled stolen Covid-19 vaccine data to damage trust ComputerWeekly.com

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

Table 162: Places for report 936943

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 163: Drugs for report 936943

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] Since the cyber attack, independent scientific assessments have granted marketing authorisations to both the Pfizer/BioNTech and Moderna vaccines in the European Union (EU), with the AstraZeneca/Oxford University vaccine set to follow, and the EMA said that amid spiralling infection rates across Europe there was now an urgent public health need to make Covid-19 vaccines as widely available as possible, as soon as possible. It added: "Despite this urgency, there has always been consensus across the EU not to compromise the high-quality standards and to base any recommendation on the strength of the scientific evidence on a vaccine's safety, quality and efficacy, and nothing else.

"EMA is in constant dialogue with the EC [European Commission], and other regulators across the network and internationally. Authorisations are granted when the evidence shows convincingly that the benefits of vaccination are greater than any risks of the vaccine. Full details of the scientific assessments are publicly available in the European Public Assessment Reports on

EMA's website. [...]

67 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	14.20
Report id	826418
Category	Medical devices for disease prevention, Antiviral others, Vaccine
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 164: Places for report 826418

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

Table 165: 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.

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

Publication date	2020-12-15
Create date	
Score	14.11
Report id	846849
Category	Medical devices for disease prevention, Antiviral others, Vaccine
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 166: Places for report 846849

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

Table 167: Drugs for report 846849

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

Notes:

69 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	14.11
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 168: Places for report 838653

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 169: Drugs for report 838653

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 170: Other Stories

ID	Title	Link
838956	Pfizer/BioNTech vaccine docs hacked from European Medicines Agency	Link
838970	Hackers accessed vaccine documents in cyber-attack on EMA	Link
839040	EU drug regulator hacked, data on COVID-19 vaccine accessed	Link
839305	Hackers access documents related to authorized COVID-19 vaccines	Link

Table 170: Other Stories(continued)

ID	Title	Link
841207	Hackers breach Pfizer/BioNTech COVID-19 vaccine data in cyberattack targeting EMA	Link
841851	EU Vaccine Regulator Hacked for Pfizer/BioNTech Info	Link
843802	EU drugs regulator confirms data breach in cyber attack	Link
844384	Mafias are planning to develop fake Corona Vaccine	Link
846943	Hackers access documents related to authorized COVID-19 vaccines	Link
853580	EU drug regulator hacked, data on COVID-19 vaccine accessed	Link
920776	Hackers Leak Stolen Pfizer-BioNTech COVID-19 Vaccine Data	Link
929947	Hackers leak Moderna, Pfizer vaccine data stolen in EU cyberattack online	Link
936960	Hackers Leak COVID-19 Vaccine Data Stolen During EU Regulator Breach	Link
940434	Hackers 'manipulated' stolen COVID vaccine papers, says EU agency	Link
943454	Hackers 'manipulated' stolen COVID-19 vaccine data before leaking it online	Link
943456	Pfizer-BioNTech COVID-19 Vaccine Data Stolen From European Medicines Agency's Server Leaked Online	Link
945464	COVID-19 Vaccine Data Manipulated Before Leak to Impair Public Trust	Link
946086	Hackers manipulated stolen Covid-19 vaccine data to undermine trust: EMA	Link
946713	Altered Vaccine Data Exposes Critical Cyber Risks	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. [...]

70 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	14.10
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 171: 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. [...]

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

Publication date	2020-12-17
Create date	2021-01-10
Score	14.09
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 172: Places for report 879608

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

Table 173: Drugs for report 879608

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 174: 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. [...]

72 Mkhize warns of COVID-19 vaccine challenges such as theft

Publication date	2021-02-05
Create date	2021-02-19
Score	14.03
Report id	943565
Category	Vaccine
Quality	Diverted/Unregistered
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Mkhize warns of COVID-19 vaccine challenges such as theft Eyewitness News

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

Table 175: Places for report 943565

Region Name	Country	Location	Latitude	Longitude
Southern Africa	South Africa	Cape Town	-33.92584	18.42322

Table 176: Drugs for report 943565

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] The Department of Health listed several risks in the vaccine rollout, like possible vaccine theft and malfeasance in the procurement process. [...]

73 Forum, Feb. 17: Beware of vaccine scams

Publication date	2021-02-16
Create date	2021-02-19
Score	13.96
Report id	944148
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Forum, Feb. 17: Beware of vaccine scams Valley News

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

Table 177: Places for report 944148

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

Table 178: Drugs for report 944148

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 179: Other Stories

ID	Title	Link
946325	Protect yourself from COVID-19-related scams	Link
946765	COVID vaccine scam warning from Two Rivers Public Health Department	Link
966620	Coronavirus vaccine scams are on the rise — here's how to spot them	Link
972963	Don't Fall for a COVID-19 Vaccine Scam	Link
972985	4 Scams to Warn Older Loved Ones About, From Fake COVID-19 Vaccines to Fake Relatives	Link

Notes: The FBI, the Department of Health and Human Services Office of the Inspector General, and the Center for Medicare and Medicare Services are warning the public of fraud schemes related to COVID-19 vaccines.

One such scheme suggests that scammers could be acquiring empty or used COVID-19 vaccine vials to fraudulently offer fake or counterfeit vaccines. In response, the Department of Defense released a recommendation to vaccine administration sites to destroy empty vials and product packaging. [...]

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

Publication date	2021-01-15
Create date	2021-01-18
Score	13.93
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 180: 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. [...]

75 Covid-19 and organised crime: counterfeit cures

Publication date	2021-02-17
Create date	2021-02-19
Score	13.85
Report id	944946
Category	Other, Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Covid-19 and organised crime: counterfeit cures Business Day

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

Table 181: Places for report 944946

Region Name	Country	Location	Latitude	Longitude
Eastern Africa	Kenya	Mombasa	-4.05466	39.66359
		Africa	7.1881	21.09375

Table 182: Drugs for report 944946

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 183: Other Stories

ID	Title	Link
945057	Crime and (no) punishment: Why Africa's ports are vulnerable to counterfeit COVID vaccines – Bhekisisa	Link
945128	Crime and (no) punishment: Why Africa's ports are vulnerable to counterfeit Covid vaccines	Link
945954	Worries over growing counterfeit COVID-19 vaccine market in East Africa • Today News Africa	Link

Notes: [...] The city today retains its reputation as an integral part of Africa's criminal under-

belly, being a major entry point for narcotics from the Middle East and illicit pharmaceuticals from Asia. Over the past 12 months, there's been increasing talk in East African intelligence and law enforcement circles about the role it could play in facilitating shipments of falsified and substandard Covid-19 vaccines.[...] "Inspection regimes have been reduced in order to facilitate the swift and hassle-free movement of items through the border, to be distributed across the region," says Broome. This, however, also allows organised crime groups "to facilitate the movement of illicit medications" — most of them from Asia. [...] In East Africa, several police officers tell Bhekisisa they're concerned that falsified, substandard and stolen Covid vaccines could be distributed by some of the region's many thousand informal "chemists".

It's a valid concern, says Interpol.

"The number of unlicensed pharmacies has increased across the region during Covid-19," says Broome. "We see an example of this during this period where 56 arrests were made in Uganda and there was the closure of 1,526 facilities. These enable, for example, the sales of fake antivirals imported from Asia."

Broome says members of organised crime groups are trying to "franchise" illegal pharmacies all over East Africa, "which would give them an even greater air of legitimacy". [...]

76 Cameroon students 'injured in fake-vaccine stampede'

Publication date	2021-02-23
Create date	2021-02-24
Score	13.72
Report id	952115
Category	Vaccine
Quality	Falsified
Source	Other
Curation	Manually curated
Incident or General	General

Snippet: Cameroon students 'injured in fake-vaccine stampede' Myjoyonline.com

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

Table 184: Places for report 952115

Region Name	Country	Location	Latitude	Longitude
Central Africa	Cameroon	Kumba	4.6363	9.4469

Table 185: Drugs for report 952115

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Three students were injured in Cameroon's South-West region after a stampede broke out following a rumoured Covid-19 vaccination campaign, The Guardian Post newspaper has reported.

The students from the city of Kumba are currently being observed by medics, the newspaper adds.

"The injuries were recorded in the wake of a stampede as many struggled to escape a rumoured Covid-19 vaccination campaign," [...]

77 Police issue security warning due to threat of COVID-19 vaccines being stolen

Publication date	2021-02-04
Create date	2021-02-18
Score	13.64
Report id	943465
Category	Vaccine
Quality	Diverted/Unregistered
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: Police issue security warning due to threat of COVID-19 vaccines being stolen Daily Record

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

Table 186: Places for report 943465

Region Name	Country	Location	Latitude	Longitude
Americas	United States	Perthshire	33.97733	-90.91233
Europe	United Kingdom	Perth	56.39522	-3.43139
Europe	United Kingdom	Perth and Kinross	56.5	-3.75

Table 187: Drugs for report 943465

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Police Scotland this week issued a security warning to Perth and Kinross health professionals over storage of the COVID vaccine.

An official email sent to some NHS Tayside staff said "careful consideration" should be given to how to keep the vaccine safe, with theft thought to be the most likely threat. [...]

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

Publication date	2020-11-20
Create date	2020-12-08
Score	13.57
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 188: Places for report 811709

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 189: Drugs for report 811709

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 190: Other Stories

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

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

Publication date	2020-12-04
Create date	
Score	13.49
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 191: 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 192: Drugs for report 839166

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes:

80 Europol: Beware Fake Dark Web #COVID19 Vaccines

Publication date	2020-12-07
Create date	2020-12-08
Score	13.03
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 193: 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 194: 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. [...]

81 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	12.81
Report id	850502
Category	Other, Vaccine
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 195: Places for report 850502

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

Table 196: Drugs for report 850502

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 197: 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. [...]

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

Publication date	2021-02-03
Create date	2021-02-05
Score	12.38
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 198: Places for report 921872

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

Table 199: Drugs for report 921872

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 200: Other Stories

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

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

Publication date	2020-12-09
Create date	2020-12-11
Score	12.06
Report id	838957
Category	Other, Medical device used for cure/mitigation/treatment, Vaccine, Medical device for screening/diagnosis/monitoring
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 201: Places for report 838957

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

Table 202: Drugs for report 838957

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 203: 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.

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

Publication date	2020-12-14
Create date	2020-12-15
Score	11.96
Report id	845983
Category	Vaccine, Anti-malarial
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 204: Places for report 845983

Region Name	Country	Location	Latitude	Longitude
		Earth	0	0

Table 205: Drugs for report 845983

Medicine Name	Medicine Class	Action	ATC Code
			J07
		antimalarials	P01B

Table 206: Other Stories

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

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

Publication date	2020-12-30
Create date	2020-12-31
Score	11.33
Report id	869104
Category	Vaccine
Quality	Diverted/Unregistered
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 207: Places for report 869104

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

Table 208: 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. [...]

86 ‘Robust mechanism needed to check pilferage & black-marketing of Covid vax’

Publication date	2020-12-19
Create date	2020-12-22
Score	11.32
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 209: Places for report 853429

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

Table 210: Drugs for report 853429

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 211: Other Stories

ID	Title	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 - Sentinellassam	Link
867593	‘Robust mechanism needed to check pilferage & black-marketing of Covid vax’	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. [...]

87 Warning over fake coronavirus vaccine medics calling at homes in Leicester

Publication date	2021-02-13
Create date	2021-02-16
Score	11.28
Report id	938712
Category	Vaccine
Quality	Not Directly Relevant
Source	Street vendors
Curation	Manually curated
Incident or General	General

Snippet: Warning over fake coronavirus vaccine medics calling at homes in Leicester Leicester-shire Live

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

Table 212: Places for report 938712

Region Name	Country	Location	Latitude	Longitude
Europe	United Kingdom	Leicester	52.6386	-1.13169

Table 213: Drugs for report 938712

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: Phoney medics offering coronavirus vaccines have been visiting homes in the city, the NHS has warned.

They have been knocking on doors in Leicester pretending to be able to offer the vaccine but residents are being warned that only housebound people will ever receive a visit to get their jab and only after they have booked a visit.

The NHS East Leicestershire and Rutland Clinical Commissioning Group said in a tweet this afternoon: "We're aware of reports of people knocking on doors in the city claiming to offer the covid vaccine.

"Please do not let these people into your homes. [...]"

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

Publication date	2021-01-23
Create date	2021-01-25
Score	11.23
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 214: Places for report 905622

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

Table 215: 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.

89 Health officials warn counterfeit vaccines could be deadly

Publication date	2021-01-15
Create date	2021-01-18
Score	11.23
Report id	893211
Category	Vaccine
Quality	Diverted/Unregistered
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 216: Places for report 893211

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

Table 217: 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. [...]

90 The Vaccine Black Market – The Pioneer

Publication date	2021-02-13
Create date	2021-02-16
Score	11.12
Report id	939040
Category	Antiseptic, Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: The Vaccine Black Market – The Pioneer The Pioneer

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

Table 218: Places for report 939040

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

Table 219: Drugs for report 939040

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] The slow vaccine rollout is leaving thousands of Americans wondering when they will get their turn for vaccinations. COVID-19 has created breeding grounds for a new set of black market products, beginning with the falsification of hand sanitizer in the early stages of the pandemic. With a slow vaccination process, America's wealthy class and those with political connections are seizing the opportunity to cut in line for vaccinations, some posing as healthcare professionals. According to experts, it was only inevitable a black market would emerge from the Trump Administration's failure to adequately set guidelines for inoculation. Nico Passas, a Northwestern University Professor, spoke out in a discussion regarding the black market citing fear of "falsified" products which "undermines...public health of the community." [...]

91 PNP told: Go after fake vaccine sellers, not teachers of displaced Lumads

Publication date	2021-02-17
Create date	2021-02-22
Score	11.12
Report id	945118
Category	Vaccine
Quality	Falsified
Source	Not applicable
Curation	Manually curated
Incident or General	General

Snippet: PNP told: Go after fake vaccine sellers, not teachers of displaced Lumads Philstar.com

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

Table 220: Places for report 945118

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

Table 221: Drugs for report 945118

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] The Department of Interior and Local Government on Thursday also called on the PNP to be vigilant and "work double time" to arrest peddlers of fake vaccines, citing reports of their circulation in the market.

In a statement released to reporters, Undersecretary Bernardo C. Florece, DILG officer-in-charge, said that local government units and the PNP must be on top of the hunt and arrest illegal peddlers of fake COVID-19 vaccines.

"Some people are taking advantage of the pandemic to make money by selling fake vaccines," Florence said.

"I am directing the PNP to arrest these criminals and ensure that these bogus vaccines are taken off the market."

92 [EXCLUSIVE] Little vials, big crime: Criminals primed for onslaught on Africa's vaccines – Bhekisisa

Publication date	2021-02-11
Create date	2021-02-15
Score	10.88
Report id	935604
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: [EXCLUSIVE] Little vials, big crime: Criminals primed for onslaught on Africa's vaccines – Bhekisisa Bhekisisa

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

Table 222: Places for report 935604

Region Name	Country	Location	Latitude	Longitude
Western Africa	Nigeria	Federal Republic of Nigeria	10	8
		Africa	7.1881	21.09375
Southern Africa	South Africa	Germiston	-26.23481	28.17665

Table 223: Drugs for report 935604

Medicine Name	Medicine Class	Action	ATC Code
			J07

Notes: [...] "Our inspectors got there and then they saw prefilled syringes, and they [had labels that] were written in Chinese ... The two people who were at the site, the owner of the warehouse and the Chinese owner of the consignment were arrested," says Wondo. [...] "There were clear indications that the contents of the boxes were going to be sold as genuine COVID-19 vaccines." According to Interpol, the "vaccines" had been advertised for sale on a Chinese social media app, WeChat, and had been imported from Singapore as "cosmetic injections". [...] On 15 January, Nigeria's National Agency for Food and Drug Administration and Control (Nafdac) said it was aware of fake vaccines circulating in the country. The agency's director-general,

Mojisola Adeyeye, told a press conference: "Nafdac is pleading with the public to beware. No COVID vaccines have been approved by Nafdac. Fake vaccines ... could kill." [...]

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

Publication date	2020-11-14
Create date	2020-12-08
Score	10.36
Report id	804383
Category	Medical devices for disease prevention, Vaccine, Medical device for screening/diagnosis/monitoring
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 224: Places for report 804383

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

Table 225: Drugs for report 804383

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 226: 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.[...]

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

Publication date	2020-12-21
Create date	2020-12-23
Score	9.55
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 227: 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. [...]

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

Publication date	2020-11-25
Create date	2020-11-27
Score	9.21
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 228: Places for report 819002

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

Table 229: Drugs for report 819002

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 230: Other Stories

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

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

Publication date	2021-02-09
Create date	2021-02-10
Score	8.69
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 231: Places for report 931210

Region Name	Country	Location	Latitude	Longitude
Western Asia	Turkey	Republic of 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. [...]

97 Beware of scams as coronavirus vaccine approaches FDA approval

Publication date	2020-12-01
Create date	2020-12-08
Score	8.18
Report id	827097
Category	Medical devices for disease prevention, Vaccine
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 232: Places for report 827097

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

Table 233: Drugs for report 827097

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 234: Other Stories

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

98 Here's How To Spot A Fake COVID Vaccine

Publication date	2021-03-04
Create date	2021-03-08
Score	7.93
Report id	966331
Category	Vaccine
Quality	Falsified
Source	Unspecified outlet
Curation	Manually curated
Incident or General	General

Snippet: Here's How To Spot A Fake COVID Vaccine Men's Health

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

Table 235: Places for report 966331

Region Name	Country	Location	Latitude	Longitude
Melanesia	Australia	Commonwealth of Australia	-25	135

Table 236: Drugs for report 966331

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 237: Other Stories

ID	Title	Link
967169	Buyer Beware - DODGY ONLINE COVID VACCINES SCAM WARNING	Link

Notes: [...] The worrying trend of scam emails promising people the opportunity to jump the queue is becoming a reality for many. While most Australians over the age of 18 will have the chance to be vaccinated by the end of October, these emails are becoming more prevalent. In an interview with Body and Soul, technology lawyer Nicole Murdoch said it's important to be patient. "Some people are desperate to jump the queue for vaccines and there are reports from abroad of scammers selling bogus COVID vaccines which are nothing more than saline

solutions,” she told the publication. “Scammers will try and prey on people by offering cheap vaccines, that are not even vaccines, or offering people the chance to ‘jump’ the queue or even opt for a specific vaccine.” [...]

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

Publication date	2021-01-12
Create date	2021-01-19
Score	7.76
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 238: Places for report 896499

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 239: 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.
[...]

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

Publication date	2020-12-16
Create date	2020-12-22
Score	7.33
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 240: Places for report 849824

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

Table 241: 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. [...]

101 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	7.14
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 242: Places for report 828723

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

Table 243: 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. [...]

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

Publication date	2020-11-12
Create date	2020-12-08
Score	6.67
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 244: Places for report 801776

Region Name	Country	Location	Latitude	Longitude
		Europe	48.69096	9.14062

Table 245: Drugs for report 801776

Medicine Name	Medicine Class	Action	ATC Code
			J07

Table 246: 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." [...]