Supplementary Appendix

Literature search methodology

To highlight the relationship of human activities with the emergence and spread of epidemics-pandemics, as well as the approach of this relationship through the COVID-19 pandemic, a literature search was carried out on article search platforms (PubMed, Google Scholar, and ScienceDirect), websites of international organizations (CDC, EMA, European Commission, FDA, IAGG, ICAO, IMF, IUCN, OECD, UNEP, UNICEF, UNWTO, WHO, WORLD BANK, WTO, WTTC) and on data platforms to collect epidemiological data on the pandemic (infections, deaths, SARS-COV-2 variants, pandemic waves) and vaccinations.

The search was performed using combinations of keywords covering the full range of subject areas discussed in this article. The keywords used, the eligibility criteria defined by subject area, the number of articles excluded, the reasons for exclusion, and the final number of articles selected for the article review and those excluded are presented in the tables in the Supplementary Appendix. The literature search was based on scanning the abstract and full text of the papers.

From the search platforms PubMed, Google Scholar, and ScienceDirect, 127 articles were retrieved. After deleting 9 duplicate articles (Table 5), eligibility criteria (Table 3) were defined to evaluate the remaining articles (n=118). When evaluating the abstract and full text, 9 articles were excluded (Table 5) because they did not meet the eligibility criteria, leaving 109 articles for use.

The search of websites of international organizations (CDC, EMA, European Commission, FDA, IAGG, ICAO, IMF, IUCN, OECD, UNEP, UNICEF, UNWTO, WHO, WORLD BANK, WTO, WTTC) retrieved 30 articles that met the eligibility criteria.

Epidemiological and vaccination data from the pandemic, from three databases (GISAID, Our World in Data, and COVID-19 Vaccine Tracker) were also used to write the article.

The total number of references used to write this article amounted to 143 (Tables 2 and 4).

The PRISMA flow chart (Table 1) depicts the process followed for searching the article's literature.

Table 1: bibliography search flow chart

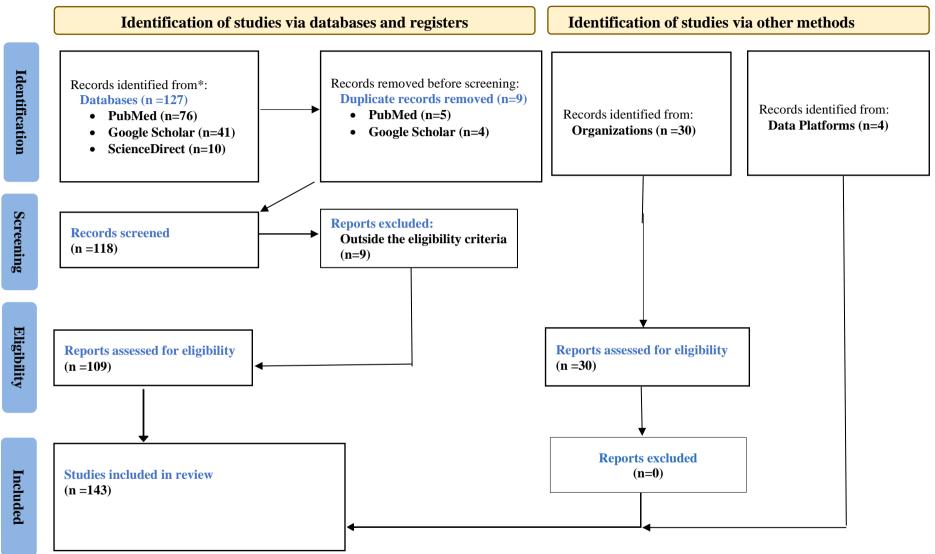


 Table 2: Number of accepted articles per literature search platform

Article Search Platforms	Accepted n= 109
PubMed	65
GoogleScholar	34
ScienceDirect	10
Organization	Accepted n =30
BOOKING (Online travel agency for lodging reservations & other travel)	1
CDC: Centers for Disease Control and Prevention	2
CLIA: Cruise Lines International Association	1
EMA: European Medicines Agency	1
European Commission	1
FDA: Food & Drug Administration	1
IPBES: The Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services	1
ICAO: International Civil Aviation Organization	1
IMF: International Monetary Fund	1
IUNC: International Union for Conservation of Nature	1
OECD: Organization for Economic Cooperation and Development	4
TUI GROUP: Tourism Union International Group	1
UNEP: United Nations Environment Programme	1
UNICEF: United Nations International Children's Emergency Fund	1
UNODC: United Nations Office on Drugs and Crime	1
UNWTO: United Nations World Tourism Organization	1
WHO: World Health Organization	7
WTO: World Trade Organization	2
WTTC: World Travel & Tourism Council	1
Data Platforms	n= 4
GISAID	1
Our World in Data	1
COVID-19 Vaccine Tracker	2
TOTAL	143

Table 3: Eligibility criteria for articles by thematic section and keywords

Thematic section	Keywords	Eligibility criteria	
Zoonosis	Zoonosis	Definition	
Transmission of zoonoses	Modes of transmission of zoonotic diseases	Direct, indirect contact, consumption of food and water, transmission by carrier	
	The natural host of pathogens	Definition	
	The intermediate host of pathogens	Definition	
Classification of zoonoses	Categories of zoonotic diseases	pathogens, mode of transmission, and pathogen reservoir hosts	
Dynamics of zoonosis typology	Dynamics or typology of zoonosis	Size and dynamics of zoonotic disease. Its evolution from animals to man	
Infectious diseases and epidemics	Infectious diseases and epidemics	Diseases and global health, medical breakthroughs	
	Biodiversity, natural ecosystems, and zoonoses	Human activities and degradation of biodiversity, disturbance of wildlife balance	
Human Activities and Epidemics of Zoonoses	Emerging diseases and human activities	emerging diseases and travel, trade, urbanization, migration, human behavior, and global spread	
	Human environments, wild animals, pathogens, and zoonoses	Wild animals near domestic animals and in human dwellings. Risk and occurrence of diseases	
Human activities (direct)	Deforestation and disease	Diseases after deforestation	
	Reforestation and diseases	Diseases after reforestation	
	Wildlife consumption and disease	Diseases caused by eating wild animal meat	
Human activities (indirect)-Climate Change	Climate change temperature, rainfall, floods, environmental conditions, and disease	Climate change, biodiversity loss, ecosystems, life cycles and geographic distribution of vectors (arthropods, mammals) pathogens, temperature rainfall, flooding, environmental conditions (humidity, standing water), and disease outbreak	
International travel and trade	Travel, trade, and the spread of zoonotic diseases	Travel, trade epidemics, and pandemics	
Intense urbanization	Urbanization and zoonoses	Urban cities, poor sanitation, lack of cleanliness, and disease	
The migration of populations	Migration and epidemics	Movement of populations and diseases Spread of diseases from endemic to non-endemic countries	
Human behavior	Human behavior and disease	Sexual behavior, drug use	

Table 3: Eligibility criteria for articles by thematic section and keywords

us cellular structure, proteins, and mode of human asion Id animals are hosts of the virus Id or domestic animals' intermediate hosts of the virus	
asion Id animals are hosts of the virus	
ld or domestic animals' intermediate hosts of the virus	
id of domestic animals intermediate nosts of the virus	
Symptoms, clinical picture of patients, organic complications	
des of transmission, respiratory system, human	
contacts, symptomatic asymptomatic carriers	
mperature, humidity, reproduction rate, and cases of VID-19	
mperature, humidity, and outbreaks with or without blic health protection measures	
ncentrations of harmful atmospheric particles and cases COVID-19.	
ily cases and deaths, excess mortality	
RS-COV mutations, variants of concern, variants of crest	
iants, cases, deaths, and pandemic waves, continents	
ckdown policies and reduction or increase in cases	
alth systems and health service delivery, implications	

 Table 3: Eligibility criteria for articles by thematic section and keywords

Thematic section	Keywords	Eligibility criteria	
Global air transport	Air transport and COVID-9	Pandemic and travel, airline passenger seats, airline revenue losses	
Global tourism industry	Tourism and COVID-19	Pandemic and international tourist arrivals, overnight stays, cruises, small and medium enterprises, tour operators, job losses, and revenue losses.	
World trade	Trade and COVID-19	Pandemic and trade in products and services	
Food security and nutrition	Food, supply chains, and COVID-19	Pandemic and food, exports, imports, product availability and prices, supply systems, agricultural products, poor countries, malnutrition	
Education	Education and COVID-19	Lockdown and training. Schools, Universities and distance education, the international student movement	
Society and psychology of citizens	Lockdown and human activities	Daily life, exercise, sports, social relationships, and Lockdown.	
	Lockdown and psychological effects	Psychological feelings (anxiety, depression), families, students, students, elderly, and Lockdown. Healthcare personnel and cases of COVID-19, psychological effects	
Therapeutic developments in the treatment of the pandemic	Therapeutic methods and vaccinations for COVID-19	Approved, drugs and Vaccines, Pharmaceutical companies, and vaccines. Types of vaccines. Vaccinations by continent	

Table 4: Accepted articles by thematic section, keywords, search platform and author

Thematic section	Keywords	Search Platform	Name of first author / acceptable
Zoonosis	Zoonosis	CDC	https://www.cdc.gov/onehealth/basics/zoonotic-diseases.html
Transmission of zoonoses	Modes of transmission of zoonotic diseases	IUCN.ORG	Kock Richard https://doi.org/10.2305/IUCN.CH.2022.01.en
	The natural host of pathogens	ScienceDirect	Wegner Giulia DOI: https://doi.org/10.1016/j.eclinm.2022.101386
	The intermediate host of pathogens		
Classification of	Categories of zoonotic	PubMed	Leaf Filho Walter PMCID: PMC8776135
zoonoses	diseases	WHO	https://www.who.int/emergencies/disease-outbreak-news/item/2022-DON410
D ' C	D : 1 C	WHO	https://worldhealthorg.shinyapps.io/mpx_global/
Dynamics of zoonosis typology	Dynamics or typology of zoonosis	PubMed	Wolfe Nathan PMCID: PMC7095142
Infectious diseases	Infectious diseases and	GoogleScholar	Gresham Louise https://doi.org/10.3402/ehtj.v6i0.19912
and epidemics	epidemics	GoogleScholar	Hays ISBN: 1851096639 (ebook)
	Biodiversity and zoonoses	GoogleScholar UNEP	Loh Elizabeth https://doi.org/10.1089/vbz.2013.1563 https://www.unenvironment.org/resources/report/preventing-future-zoonotic-disease-outbreaks-protecting-environment-animals-and
		IPBES	https://www.unep.org/resources/report/ipbes-workshop-report-biodiversity-and-
		UNODC	<u>pandemics</u> <u>https://www.unodc.org/documents/wwcr/2020/Wildlife_crime_Pangolin_UNODC.pdf</u>
Human Activities	Emerging diseases and	CDC	https://www.cdc.gov/mmwr/pdf/rr/rr4305.pdf
and Epidemics of	human activities	PubMed	Olivero Jesus PMCID: PMC5662765
Zoonoses		PubMed	Quammen David PMCID: PMC3584488
	Human environments,	GoogleScholar	Plowright Raina https://doi.org/10.1098/rspb.2014.2124
	wild animals, pathogens,	GoogleScholar	Reuter Kim https://doi.org/10.1371/journal.pone.0153192
	and zoonoses	GoogleScholar	Afelt Aneta https://doi.org/10.1016/j.meegid.2017.12.009
		ScienceDirect	Karesh William https://doi.org/10.1016/S0140-6736(12)61678-X
		GoogleScholar	Keesing Felicia http://dx.doi.org/10.1038/nature09575
		GoogleScholar	Halliday Fletcher http://dx.doi.org/10.1038/s41467-019-13049-w

Table 4: Accepted articles by thematic section, keywords, search platform and author

Thematic section	Keywords	Search Platform	Name of first author / acceptable
Human activities	Deforestation	GoogleScholar	Fineberg & Wilson [PDF] irgc.org
(direct)	anddisease	PubMed	Spielman A. DOI: <u>10.1111/j.1749-6632.1994.tb19865.x</u>
	Reforestation	PubMed	Song PMCID: PMC548959
	anddiseases	PubMed	MacKenzie John PMID: 32226946
		PubMed	Wong Matthew PMCID: PMC7217297
	Wildlife	PubMed	Lenton Timothy PMCID: PMC2538841
	consumptionand	PubMed	Nobre Carlos PMCID: PMC5047175
	disease		
International	Travel, trade, and the	GoogleScholar	Hays 2005 ISBN: 1851096639 (ebook)
travels and trade	spread of	GoogleScholar	Vinet F. ISBN: 978-618-03-2484-6
	zoonoticdiseases		
Intense	Urbanization	GoogleScholar	Fineberg & Wilson [PDF] irgc.org
urbanization	andzoonoses	GoogleScholar	Seto Karen https://doi.org/10.1073/pnas.12116581
The migration of	Migration	GoogleScholar	Dahouk Sascha PMID: 18258041
populations	and	GoogleScholar	Troy Stephanie https://doi.org/10.1097/01.md.0000165659.20988.25
	epidemics	GoogleScholar	Requena-Mendez Ana https://doi.org/10.1371/journal.pntd.0003540
Human behavior	human behavior	PubMed	Lederberg Joshua DOI: <u>10.17226/2008</u>
	anddisease		
Human activities	Climate change	PubMed	Harvell Drew DOI: <u>10.1126/science.1063699</u>
(indirect)- Climate	temperature, rainfall,	PubMed	Islam M.S DOI: <u>10.1016/j.trstmh.2009.04.016</u>
Change	floods,	ScienceDirect	Kovats R Sari https://doi.org/10.1016/S0140-6736(03)14695-8
	environmental	PubMed	Bayer Angela PMID: <u>24601921</u>
	conditions, and	PubMed	Karande S. PMID: <u>14670771</u>
	disease	PubMed	Vasconcelos P. https://doi.org/10.1002/jmv.2078
		PubMed	Lenton Timothy PMCID: PMC2538841
		PubMed	Nobre Carlos PMCID: PMC5047175
		GoogleScholar	Wang Hui-Jun https://doi.org/10.1073/pnas.96.20.110
Antimicrobial	Antimicrobial	GoogleScholar	O'Neill Jim https://amr-review.org/sites/default/files/AMR%20Review%20Paper%20-
resistance to	resistance to		<u>%20Tackling%20a%20crisis%20for%20the%20health%20and%20wealth%20of%20nations</u>
antibiotics-	antibiotics-public		<u>1.pdf</u>
public health	health systems and	GoogleScholar	IAGG https://www.who.int/antimicrobial-resistance/interagency-coordination-
systems and	diseases		group/IACG_final_report_EN.pdf?ua=1
diseases		PubMed	Baresh Aaron PMID: 25645480

Table 4: Accepted articles by thematic section, keywords, search platform and author

Thematic section	Keywords	Search Platform	Name of first author / acceptable
The natural and intermediate	SARS-COV-2, SARS-COV,	PubMed	Mousavizadeh Leila https://doi.org/10.1016/j.jmii.2020.03.022
host	MERS-COV, gene sequence	ScienceDirect	Docea Anca PMCID: PMC7169834
	SARS-COV-2 and cellular	PubMed	Carfì Angelo PMCID: PMC7349096
	structure	Google Scholar	Datta Deblina doi:10.1001/jama.2020.22717
		PubMed	Del Rio Carlos PMCID: PMC8019677
	Natural host SARS-COV-2	ScienceDirect	Zhou Hong https://doi.org/10.1016/j.cub.2020.05.023
		PubMed	Zhou Peng PMCID: PMC7095418
		PubMed	Chan Jasper PMCID: PMC7126491
		ScienceDirect	Nguyen Thanh https://doi.org/10.1016/j.mlwa.2022.100328
		Google Scholar	Ren Lili https://doi.org/10.1101/2020.06.30.175778
	Intermediate host SARS-COV-2 PubMed Menachery Vineet PMCID		Menachery Vineet PMCID: PMC7095988
		PubMed	Xiao Kangpeng, PMID: 32380510
		PubMed	Zhang Tao https://doi.org/10.1016/j.cub.2020.03.022
		PubMed	Lam Tommy Tsan PMID: 32218527 , DOI:
			10.1371/journal.ppat.1008421
		PubMed	Liu Ping. PMCID: PMC7224457
		PubMed	Shi Jianzhong PMCID: PMC7164390
		Google Scholar	Kim Young PMCID: PMC7144857
		Google Scholar	Worobey Michael DOI: 10.1126/science.abp8715
		PubMed	Oude Munnink PMCID: PMC7857398
		PubMed	Oreshkova Nadia
		D 13// 1	https://doi.org/10.2807/1560-7917.ES.2020.25.23.2001005
		PubMed PubMed	Enserink Martin DOI: <u>10.1126/science.368.6496.1169</u>
		PubMed PubMed	Ji Wei PMCID: PMC7138088
		WHO	Shi Jianzhong PMCID: PMC7164390
		WIIO	https://www.who.int/emergencies/disease-outbreak-news/item/2020-DON301
Symptoms and clinical picture	COVID-19 disease	Google Scholar	Guan Wei-Jie https://www.nejm.org/doi/10.1056/nejmoa2002032
of COVID-19 disease	CO (ID-I) discuse	PubMed	Huang Chaolin PMCID: PMC7159299
OI CO / III I / WINGERDE		PubMed	Wang Dawei PMID: 32031570
		Google Scholar	Datta S. DOI: 10.1001/jama.2020.22717

Table 4: Accepted articles by thematic section, keywords, search platform and author

Thematic section	Keywords	Search Platform	Name of first author / acceptable
Modes of transmission of	Transmission of SARS-COV-2	PubMed	Dhand Rajiv PMCID: PMC7462404
SARS-CoV-2 and the cause	Symptomatic and asymptomatic	PubMed	van Doremalen Neeltje PMCID: PMC7121658
of the pandemic	carriers	PubMed	Zhao Hongjun PMID: 32525469
		PubMed	Zuo YiYuo PMID: <u>33236896</u>
		PubMed	Gao Qin Yan PMCID: PMC7162053
		Google Scholar	Zhang Renyi https://doi.org/10.1073/pnas.2009637117
		PubMed	Wu Yongjian PMCID: PMC7158584
		PubMed	Medema Gertjan doi: 10.1021/acs.estlett.0c00357
		PubMed	Mallapaty Smriti DOI: <u>10.1038/d41586-020-00973-x</u>
		PubMed	Ommer Saad DOI: <u>10.1001/jama.2020.20892</u>
		PubMed	Sanche Steven PMID: 32255761
The effect of weather and air	Weather and spread of COVID-	Google Scholar	Chatziprodromidou I.
pollution on the spread and	19		doi:https://doi.org/10.1101/2020.05.10.20069732
mortality of COVID-19		ScienceDirect	Wang Yaqi https://doi.org/10.1016/j.scitotenv.2020.139984
disease		PubMed	Qi Hongchao PMCID: PMC7167225
The effect of weather and air	Climatic conditions,	PubMed	Livadiotis George PMID: <u>32469989</u>
pollution on the spread and	containment measures, and	PubMed	Paraskevis Dimitrios PMCID: PMC7765762
mortality of COVID-19	spread	PubMed	Jüni Peter PMCID: PMC7259972
disease		Google Scholar	Oliveiros B. Doi: https://doi.org/10.1101/2020.03.05.20031872
	Air pollution and COVID-19	PubMed	Conticini Edoardo PMCID: PMC7128509
		PubMed	Ogen Yaron PMCID: PMC7151460
		PubMed	Travaglio Marco PMCID: PMC7571423
		ScienceDirect	Wu Yu https://doi.org/10.1016/j.scitotenv.2020.139051
Infections and deaths from	Cases, deaths, Mortality	Ourworldindata.org	https://ourworldindata.org/coronavirus#explore-the-global-situation
COVID-19, mortality rates,		WHO	https://www.who.int/news/item/05-05-2022-14.9-million-excess-
excess mortality			deaths-were-associated-with-the-covid-19-pandemic-in-2020-and-2021

Table 4: Accepted articles by thematic section, keywords, search platform and author

Thematic section	Keywords	Search Platform	Name of first author / acceptable
SARS-CoV-2 variants and the waves of the pandemic	SARS-COV-2 variants	WHO	https://www.who.int/docs/default-source/coronaviruse/situation-reports/20220713_weekly_epi_update_100.pdf?sfvrsn=503e4d74_3&download=true
		GISAID	https://www.gisaid.org/hcov19-variants/
	Waves of the pandemic	Ourworldindata.org	https://ourworldindata.org/coronavirus#explore-the-global-situation
Public health and systems	Lockdown and infection mitigation	PubMed PubMed	Doumas Micheal PMID: 32513503 Moris Dimitrios PMCID: PMC8378029
	COVID-19 and health systems	Google Scholar	Nalbandian Michele https://www.ghsindex.org/wp-content/uploads/2019/10/2019-Global-Health-Security-Index.pdf
		WHO	https://www.who.int/publications/i/item/WHO-2019-nCoV-EHS_continuity-survey-2020.1
Global and European	COVID-19, global and	OECD	https://doi.org/10.1787/39a88ab1-en
economy	European economy	OECD	https://doi.org/10.1787/0d1d1e2e-en
		IMF	https://www.imf.org/en/Publications/GFSR/Issues/2020/10/13/global-
		European Commission	financial-stability-report-October-2020 https://ec.europa.eu/info/sites/info/files/economy-finance/ip136_en_2.pdf
		WOLDBANK.ORG	Blake Paul https://blogs.worldbank.org/voices/2020-year-review-impact-covid-19-12-charts
Global air transport	Air transport and COVID-9	ICAO	https://www.icao.int/sustainability/Documents/COVID- 19/ICAO_Coronavirus_Econ_Impact.pdf

Table 4: Accepted articles by thematic section, keywords, search platform and author

Thematic section	Keywords	Search Platform	Name of first author / acceptable
Global tourism industry	Tourism and COVID-19	UNWTO	https://www.e- unwto.org/doi/epdf/10.18111/wtobarometereng.2020.18.1.6
		WTTC	https://wttc.org/Research/Economic-Impact/Recovery-Scenarios
		CLIA	https://cruising.org/-/media/Facts-and-Resources/Cruise-Industry-
			COVID-19-FAQs_August-13-2020
		TUI Group	https://www.tuigroup.com/en-en/investors/news/2020/ir-
			news/20200813
		Booking Holdings	https://s201.q4cdn.com/865305287/files/doc_news/2020/08/06/BKNG-
			Q2-2020-Press-Release-Final.pdf
		OECD	https://read.oecd-ilibrary.org/view/?ref=137_137392-
			qsvjt75vnh&title=Rebuilding-tourism-for-the-future-COVID-19-
			policy-response-and-recovery
World trade	Trade and COVID-19	WTO	https://www.wto.org/english/news_e/pres20_e/pr862_e.pdf6
		WTO	https://www.wto.org/english/news_e/news21_e/serv_26jan21_e.htm
Food security and	Food, supply chains, and	Google Scholar	Barrett Christopher https://doi.org/10.1038/s43016-020-0085-y
nutrition	COVID-19	Google Scholar	Laborde David DOI: 10.13140/RG.2.2.36562.58560
		Google Scholar	Katsoras Angelo https://www.nbc.ca/content/dam/bnc/en/rates-and-
			analysis/economic-analysis/GeopoliticalBriefing 200629.pdf
		ScienceDirect	Arouna Aminou https://doi.org/10.1016/j.gfs.2020.100405
		PubMed	Pu Mingzhe PMCID: PMC7369589
		Google Scholar	Moseley William DOI: https://doi.org/10.1017/asr.2020.72
		Google Scholar	Torero Maximo https://doi.org/10.2499/p15738coll2.133762_27

Table 4: Accepted articles by thematic section, keywords, search platform and author

Thematic section	Keywords	Search Platform	Name of first author / acceptable
Education	Education and COVID-19,	UNICEF	https://weshare.unicef.org/archive/RemoteLearningFactsheet_Draft_v4-
	lockdown, and education		2AM408PZYD7C.html
		OECD	https://doi.org/10.1787/69096873-en
Society and psychology of	Lockdown and human	PubMed	Fountoulakis Konstantinos PMCID: PMC7605790
citizens	activities		
	Lockdown and psychological	PubMed	Li Lambert PMCID: PMC7326403
	effects	PubMed	Cao Wenjun PMCID: PMC7102633
		PubMed	Kawohl Wolfram PMCID: PMC7185950
		PubMed	Druss Benjamin DOI: 10.1001/jamapsychiatry.2020.0894
		PubMed	Orgilés Mireia PMCID: PMC7677301
		Google Scholar	Alvarez Fernando https://www.aeaweb.org/content/file?id=1516
		PubMed ScienceDirect	Lai Jianbo PMID: <u>32202646</u> Brooks Samantha https://doi.org/10.1016/S0140-6736(20)30460-8
		Google Scholar	Zaffina Salvatore http://www.anma.it/rassegna_biblio/disturbo-post-
		Google Scholar	traumatico-stress-operatori-sanitari-incidente-ospedaliero/
		PubMed	Roden- Foreman Kenleigh DOI: 10.1097/BOT.000000000000884
		PubMed	Rana Waleed PMCID: PMC7139243
Therapeutic developments	Therapeutic methods and	EMA	https://www.ema.europa.eu/en
in the treatment of the	vaccinations for COVID-19	COVID-19 Vaccine	https://covid19.trackvaccines.org/vaccines/
pandemic		Tracker	
		COVID-19 Vaccine	https://covid19.trackvaccines.org/trials-vaccines-by-country/
		Tracker	
		FDA	https://www.fda.gov/
		Google Scholar	Malpani, R., and Maitland, A. The People's Vaccines
		230810 20110141	https://app.box.com/s/hk2ezb71vf0sla719jx34v0ehs0l22os
		PubMed	Williams Thomas PMCID: PMC8009632
		WHO	https://news.un.org/en/story/2021/12/1108622
		ourworldindata.org	https://ourworldindata.org/coronavirus#explore-the-global-situation

 Table 5: Excluded articles and reasons for exclusion

Thematic section	Keywords	Search Platform	Name of first author / excluded n=18	Exception reason
Human Activities and Epidemics of Zoonoses	Human environments, wild animals, and zoonoses	PubMed	Ricardo Moratelli. PMID: <u>25742261</u>	Duplicate article
Human activities (indirect)-Climate Change	Climate change and disease	PubMed	Gubler D J. PMID: <u>11359689</u>	Duplicate article
The natural and intermediate host	SARS-COV-2, SARS-COV, MERS-COV, gene sequence	PubMed Google Scholar PubMed	Assiri Abdullah. PMCID: PMC4029105 Moira Chan-Yeung. PMID: 12702616 Shi Zhengli. PMCID: PMC7114516	Not relevant to the topic and outside the eligibility criteria
Public health and health systems	Natural host SARS-COV-2 COVID-19, health systems and impacts	PubMed PubMed	Ye Zi-Wei. PMID: <u>32226286</u> Garcia-Castrillo Luis. PMID: <u>32243317</u>	Duplicate article Not relevant to the topic and outside the eligibility criteria
Global and European economy	COVID-19, Global and European economy	Google Scholar Google Scholar	Anderson https://www.mdpi.com/2071-1050/12/13/5404# Bournarakis Ioannis DOI: 10.1080/02692171.2013.858669	Not relevant to the topic and outside the eligibility criteria
Food security and nutrition	Food, supply chains, and COVID-19	Google Scholar PubMed Google Scholar Google Scholar	Jane Battersby https://doi.org/10.1007/s10460-020-10078-w Bracale Reata. RPMCID: PMC7832660 Clapp Jennifer https://doi.org/10.1080/03066150.2020.1823838 Jim Worstell DOI: https://doi.org/10.5304/jafscd.2020.093.015	Duplicate article Duplicate article Duplicate article Duplicate article
Society and psychology of citizens	Lockdown και psychological effects Students, healthcare personnel, and psychological effects	Google Scholar PubMed PubMed PubMed — PubMed	Békés Vera https://doi.org/10.1037/int0000214 Choi Namkee. PMCID: PMC3519946 Duan Li. PMCID: PMC7128328 Tsai Hsiu-Hsin. PMCID: PMC6986028 Grassi Luigi. DOI: 10.1159/000012416	Duplicate article Not relevant to the topic and outside the eligibility criteria Duplicate article