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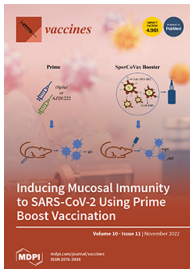
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## Vaccines, Volume 10, Issue 11 (November 2022) – 206 articles



**Cover Story** ([view full-size image](#) (/files/uploaded/covers/vaccines/big\_cover-vaccines-v10-i11.png)): Current SARS-CoV-2 vaccines are administered systemically and result in poor immunogenicity at the mucosa, ultimately failing to prevent infection. We engineered *B. subtilis* spores to express SARS-CoV-2 antigens and used these to nasally boost a systemic prime consisting of either the rSpike protein or the AZD1222 vaccine. This heterologous systemic prime–mucosal boost strategy evoked mucosal IgA and is potentially protective, as shown in the hamster model of SARS-CoV-2 infection. Coupled with their ease of production, heat stability, and extraordinary resistance properties, spore vaccines, used mucosally, lend themselves to pandemic situations, facilitating a method with which to both augment systemic immunity as well as induce mucosal immunity, a prerequisite for complete protection. Such an approach is likely to have applications in other viral diseases. [View this paper](https://www.mdpi.com/2076-393X/10/11/1900) (<https://www.mdpi.com/2076-393X/10/11/1900>).

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**Evaluation of the Oral Microcirculation in Patients Undergoing Anti COVID-19 Vaccination: A Preliminary Study** (/2076-393X/10/11/1978)

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*Vaccines* **2022**, *10*(11), 1978; <https://doi.org/10.3390/vaccines10111978> (<https://doi.org/10.3390/vaccines10111978>), - 21 Nov 2022 [Accept cookies](#)

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**Abstract** Videocapillaroscopy allows the study of both the morphological and architectural structure of the microcirculation and its hemodynamic conditions; these parameters are directly involved in autoimmune and/or inflammatory pathologies. The purpose of this research, based on capillaroscopy, is to establish whether a patient who [...] **Read more.**

(This article belongs to the Special Issue **COVID-19 and Dentistry: Knowledge and Attitude towards Infections, Immunity and Vaccination** (/journal/vaccines/special\_issues/S9AF1H3L39.))

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**Allelic Variants of HLA-C Upstream Region, PSORS1C3, MICA, TNFA and Genes Involved in Epidermal Homeostasis and Barrier Function Influence the Clinical Response to Anti-IL-12/IL-23 Treatment of Patients with Psoriasis** (/2076-393X/10/11/1977)

by [Martina Morelli](https://sciprofiles.com/profile/author/SW5XUEhzWGpRTIBVeENKSzJ5dXIWb012eWdNL0Mva3dLcHJ0R1IIZIN5MD0=) (<https://sciprofiles.com/profile/author/SW5XUEhzWGpRTIBVeENKSzJ5dXIWb012eWdNL0Mva3dLcHJ0R1IIZIN5MD0=>), [Marco Galluzzo](https://sciprofiles.com/profile/2181655) (<https://sciprofiles.com/profile/2181655>), [Claudia Scarponi](https://sciprofiles.com/profile/author/VnJTdU56V2QzNUZEMFhhVUu0KzJucWVhTVo5TWx5RGixUTdibnk2dIBlaz0=) (<https://sciprofiles.com/profile/author/VnJTdU56V2QzNUZEMFhhVUu0KzJucWVhTVo5TWx5RGixUTdibnk2dIBlaz0=>), [Stefania Madonna](https://sciprofiles.com/profile/725185) (<https://sciprofiles.com/profile/725185>), [Giovanni Luca Scaglione](https://sciprofiles.com/profile/author/N0JTakhUZzineG03eXp0SIMxTHVUYnNiU2JnaUVKNU5ESkk1bHZFVktXaz0=) (<https://sciprofiles.com/profile/author/N0JTakhUZzineG03eXp0SIMxTHVUYnNiU2JnaUVKNU5ESkk1bHZFVktXaz0=>), [Giampiero Girolomoni](https://sciprofiles.com/profile/1369528) (<https://sciprofiles.com/profile/1369528>), [Marina Talamonti](https://sciprofiles.com/profile/author/elRuelJmV2U1enJyNVNxUVJTYmVTbkMrdnJoL3ITSEhyM0paQ0U4WGJhZz0=) (<https://sciprofiles.com/profile/author/elRuelJmV2U1enJyNVNxUVJTYmVTbkMrdnJoL3ITSEhyM0paQ0U4WGJhZz0=>), [Luca Bianchi](https://sciprofiles.com/profile/922026) (<https://sciprofiles.com/profile/922026>) and [Cristina Albanesi](https://sciprofiles.com/profile/1228082) (<https://sciprofiles.com/profile/1228082>)

*Vaccines* **2022**, *10*(11), 1977; <https://doi.org/10.3390/vaccines10111977> (<https://doi.org/10.3390/vaccines10111977>), - 21 Nov 2022

**Abstract** Several biologic therapies have been developed to treat moderate-to-severe psoriasis, with patients exhibiting different clinical benefits, possibly due to the heterogeneity of pathogenic processes underlying their conditions. Ustekinumab targets the IL-12/IL-23-p40 subunit and inhibits type-1 and type-17 T-cell responses. Although ustekinumab is effective [...] **Read more.**

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**Stakeholder Perspectives of Australia's National HPV Vaccination Program** (/2076-393X/10/11/1976)

by [Caitlin Swift](https://sciprofiles.com/profile/2514880) (<https://sciprofiles.com/profile/2514880>), [Aditi Dey](https://sciprofiles.com/profile/288887) (<https://sciprofiles.com/profile/288887>), [Harunor Rashid](https://sciprofiles.com/profile/564961) (<https://sciprofiles.com/profile/564961>), [Katrina Clark](https://sciprofiles.com/profile/author/VkIFcIISdExyVXdpZU9OcDIZNU1JNnppMTVkmTUyMHAxNVkvek5VbWU1bz0=) (<https://sciprofiles.com/profile/author/VkIFcIISdExyVXdpZU9OcDIZNU1JNnppMTVkmTUyMHAxNVkvek5VbWU1bz0=>), [Ramesh Manocha](https://sciprofiles.com/profile/author/SIZCaVdUUy95SVMwamJLQ01BZ3VNbVvtUW0weXd2a2dhY2xGdEk1NCsyST0=) (<https://sciprofiles.com/profile/author/SIZCaVdUUy95SVMwamJLQ01BZ3VNbVvtUW0weXd2a2dhY2xGdEk1NCsyST0=>), [Julia Brotherton](https://sciprofiles.com/profile/author/VGNGa1MreFJFbWxvcDJYRkxBeWt2MWTibG5ZT2xpUjE4N0d6ZjQxdUFFVT0=) (<https://sciprofiles.com/profile/author/VGNGa1MreFJFbWxvcDJYRkxBeWt2MWTibG5ZT2xpUjE4N0d6ZjQxdUFFVT0=>) and [Frank Beard](https://sciprofiles.com/profile/author/zjVSeHRPbE1SbVJBcXJkL1FQbCtkc1dmZ04rd0oyZGwxStVc1dmaERFWT0=) (<https://sciprofiles.com/profile/author/zjVSeHRPbE1SbVJBcXJkL1FQbCtkc1dmZ04rd0oyZGwxStVc1dmaERFWT0=>)

*Vaccines* **2022**, *10*(11), 1976; <https://doi.org/10.3390/vaccines10111976> (<https://doi.org/10.3390/vaccines10111976>), - 21 Nov 2022

**Abstract** Australia has been a world leader in human papillomavirus (HPV) vaccination and was the first country to implement a fully funded national HPV vaccination program, from 2007 for girls and 2013 for boys. In 2018 the program changed from a 4-valent to 9-valent [...][Read more](#). (This article belongs to the Special Issue [Vaccination of Adolescents \(/journal/vaccines/special\\_issues/Adolescents\\_Vaccination\)](#))

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**SARS-CoV-2: Immunopeptidomics and Other Immunological Studies (/2076-393X/10/11/1975)**

by [Vivek P. Chavda](https://sciprofiles.com/profile/1665236) and [Elrashdy M. Redwan](https://sciprofiles.com/profile/371740)  
*Vaccines* **2022**, *10*(11), 1975; <https://doi.org/10.3390/vaccines10111975> (<https://doi.org/10.3390/vaccines10111975>) - 21 Nov 2022

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**Abstract** Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has produced a significant continuing epidemic worldwide [...][Full article \(/2076-393X/10/11/1975\)](#)

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**The Re-Emergence of COVID-19 in 2022 Has Affected People's Views on Vaccines (/2076-393X/10/11/1974)**

by [Yufei Wu](https://sciprofiles.com/profile/2163990), [Huanjie Li](https://sciprofiles.com/profile/1554030) and [Yunshan Wang](https://sciprofiles.com/profile/350078)

*Vaccines* **2022**, *10*(11), 1974; <https://doi.org/10.3390/vaccines10111974> (<https://doi.org/10.3390/vaccines10111974>) - 21 Nov 2022  
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**Abstract** The recurrence of the COVID-19 pandemic in 2022 has had a great impact on people's mentality, although the government has controlled it through a series of effective measures. What is noteworthy is that the public opinion on vaccines has changed significantly, and at [...][Read more](#).

(This article belongs to the Special Issue [Vaccination Hesitancy: Attitudes and Associated Factors \(/journal/vaccines/special\\_issues/vaccines\\_hesitancy\)](#))

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**Freedom of Choice to Vaccinate and COVID-19 Vaccine Hesitancy in Italy (/2076-393X/10/11/1973)**

by [Mawulorm K. I. Denu](https://sciprofiles.com/profile/2559869), [Alberto Montrond](https://sciprofiles.com/profile/1558782), [Rachael Piltch-Loeb](https://sciprofiles.com/profile/1558786), [Marco Bonetti](https://sciprofiles.com/profile/1558774), [Veronica Toffolutti](https://sciprofiles.com/profile/author/MTJ5bm1DOW9jUjA2c1NZR08zZkUwbkpWeUZrc3VUb1VWT2dNMU4xNWVOQT0=), [Marcia A. Testa](https://sciprofiles.com/profile/1558794) and [Elena Savoia](https://sciprofiles.com/profile/27209)

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**Abstract** Despite the availability of effective vaccines that lower mortality and morbidity associated with COVID-19, many countries including Italy have adopted strict vaccination policies and mandates to increase the uptake of the COVID-19 vaccine. Such mandates have sparked debates on the freedom to choose [...][Read more](#).

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**A Case of Purpura Annularis Telangiectodes of Majocchi after Anti-SARS-CoV-2 Pfizer-BioNTech Vaccine: Is There an Association? (/2076-393X/10/11/1972)**

by [Francesca Ambrogio](https://sciprofiles.com/profile/2399171) and [Carmelo Laface](https://sciprofiles.com/profile/869931)

[Giorgia Sbarra](https://sciprofiles.com/profile/author/UXZ5c2F1VU8xSjVknY9qSzIUbwWfEpGNVRhL1RDQ20vFi3SkiKbDjXOD0=) and [Raffaele Filotico](https://sciprofiles.com/profile/author/Y2dGdm9WNVlwM29YVENDbTdydya08wK1QvS3RTbGFLcGdTRm9zZG90eS0=)

*Vaccines* **2022**, *10*(11), 1972; <https://doi.org/10.3390/vaccines10111972> (<https://doi.org/10.3390/vaccines10111972>) - 21 Nov 2022  
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**Abstract** Purpura annularis telangiectodes (PATE) is a rare skin condition characterized by annular lesions with central purpura and peripheral telangiectases. It is usually associated with systemic diseases, but it can also occur as a side effect of certain medications, including vaccines. In this case report, we describe a patient who developed PATE after receiving the Pfizer-BioNTech COVID-19 vaccine. The patient's symptoms improved after discontinuation of the vaccine. This case highlights the need for vigilance in monitoring for adverse effects of vaccines and the importance of a thorough medical history and physical examination in patients with PATE. [Read more](#) (and see our cookies)

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**Abstract** The advent of vaccines has drastically reduced the incidence, morbidity, and mortality related to COVID-19, and with the increase in the number of vaccinated subjects, there have been reports of some adverse events, including skin reactions. In this paper, we report a clinical [...] [Read more.](#)

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[./2076-393X/10/11/1971/pdf?version=1669017319](https://doi.org/10.3390/vaccines10111971/pdf?version=1669017319)

### Comparison of Biological, Pharmacological Characteristics, Indications, Contraindications and Adverse Effects of JYNNEOS and ACAM2000 Monkeypox Vaccines ([/2076-393X/10/11/1971](https://doi.org/10.3390/vaccines10111971))

by [Sultan Ayoub Meo](https://sciprofiles.com/profile/374487) (<https://sciprofiles.com/profile/374487>),

[Abeer A. Al-Masri](https://sciprofiles.com/profile/author/WldHqNvJUUIxVDd5VnNKUW5TMIINREtdWZFNHhCRXZwQjNlakwway9YTT0) (<https://sciprofiles.com/profile/author/WldHqNvJUUIxVDd5VnNKUW5TMIINREtdWZFNHhCRXZwQjNlakwway9YTT0>),

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[Thamir Al-khlaiwi](https://sciprofiles.com/profile/author/NXFTcG9vcURnQVg4TjNvZGxmNk9UU0MwK2IBSXRxbjZtMnphUGhXWk9aND0) (<https://sciprofiles.com/profile/author/NXFTcG9vcURnQVg4TjNvZGxmNk9UU0MwK2IBSXRxbjZtMnphUGhXWk9aND0>).

*Vaccines* 2022, 10(11), 1971; <https://doi.org/10.3390/vaccines10111971> (<https://doi.org/10.3390/vaccines10111971>), - 21 Nov 2022

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**Abstract** Human monkeypox is an emerging viral zoonotic disease, that has caused highly distinctive, challenging and threatening problems worldwide. The US Food and Drug Administration (FDA) has given interim authorization for the JYNNEOS and ACAM2000 vaccines for the outbreak of monkeypox 2022. The present [...] [Read more.](#)

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[./2076-393X/10/11/1970/pdf?version=1668934873](https://doi.org/10.3390/vaccines10111970/pdf?version=1668934873)

### Strengthening the Link between Vaccine Predispositions and Vaccine Advocacy through Certainty ([/2076-393X/10/11/1970](https://doi.org/10.3390/vaccines10111970))

by [Borja Paredes](https://sciprofiles.com/profile/1860888) (<https://sciprofiles.com/profile/1860888>), [Miguel A. Martín Cárdena](https://sciprofiles.com/profile/2509513) (<https://sciprofiles.com/profile/2509513>),

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[Richard E. Petty](https://sciprofiles.com/profile/1299326) (<https://sciprofiles.com/profile/1299326>).

*Vaccines* 2022, 10(11), 1970; <https://doi.org/10.3390/vaccines10111970> (<https://doi.org/10.3390/vaccines10111970>), - 20 Nov 2022

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**Abstract** Background. Instruments designed to assess individual differences in predispositions towards vaccination are useful in predicting vaccination-related outcomes. Despite their importance, there is relatively little evidence regarding the conditions under which these instruments are more predictive. The current research was designed to improve the [...] [Read more.](#)

(This article belongs to the Special Issue [COVID-19 Vaccine Acceptance and Uptake: Insights from Behavioural and Social Sciences](#) ([/Journal/vaccines/special\\_issues/Vaccine\\_Acceptance](https://doi.org/10.3390/vaccines10111970)))

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## Lesions from Vaccine-Related Poliovirus in Israel, UK and USA (2076-393X/10/11/1969)



by [T. Jacob John](https://sciprofiles.com/profile/author/NjQ3eFRaMEpYQ3BUR2c4cGtWY3lvYVdnUTZwdEpubiZiYWJsTFZwdkVLT0=) and

[Dhanya Dharmapalan](https://sciprofiles.com/profile/1155615)

*Vaccines* **2022**, *10*(11), 1969; <https://doi.org/10.3390/vaccines10111969> - 20 Nov 2022

Cited by 2 (2076-393X/10/11/1969#metrics) | Viewed by 1029

**Abstract** Genetic variants of vaccine poliovirus type 2, imported from an unknown source, were detected in waste waters in Jerusalem, London and New York in early 2022. Wild poliovirus type 2 was globally eradicated in 1999, but vaccine virus type 2 continued for 16 [...] [Read more.](#)

(This article belongs to the Section [Attenuated/Inactivated/Live and Vectored Vaccines](#) ([journal/vaccines/sections/Live\\_Vectored\\_Vaccines](#)))



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## Understanding Influenza and SARS-CoV-2 Vaccine Hesitancy in Racial and Ethnic Minority Caregivers (2076-393X/10/11/1968)

by [Shannon H. Baumer-Mouradian](https://sciprofiles.com/profile/2452228),

[Rebecca J. Hart](https://sciprofiles.com/profile/author/S0kxcXIQWG1PaUgyZGE5NTRZT0MyQ25rVzBQWFZ5OVFKdUVOS1FhU1I3Yz0=),

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[Michael Levas](https://sciprofiles.com/profile/author/Nml2YIQ3U3IrbWUwM0V2ZjJRQi9VZz09),

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*Vaccines* **2022**, *10*(11), 1968; <https://doi.org/10.3390/vaccines10111968> - 20 Nov 2022

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**Abstract** (1) Background: We compared influenza and SARS-CoV-2 vaccine hesitancy levels in Black, Hispanic, and White parents/caregivers and identified barriers and facilitators to vaccine acceptance. (2) Methods: This was a mixed methods study. A cross-sectional survey of ED caregivers presenting with children 6mo–18yo compared [...] [Read more.](#)



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## Impact of COVID-19 Vaccination on Seroprevalence of SARS-CoV-2 among the Health Care Workers in a Tertiary Care Centre, South India (2076-393X/10/11/1967)

by [Divyaa Elangovan](https://sciprofiles.com/profile/author/bkV4QjhT0dWdVWVXOGNIYzRpbXNVZnnpnVXJSMeg1bjk3aFd4bFVpK3JNRT0=),

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[Krishna Mohan Surapaneni](https://sciprofiles.com/profile/580897)

*Vaccines* **2022**, *10*(11), 1967; <https://doi.org/10.3390/vaccines10111967> - 19 Nov 2022

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**Abstract** Global vaccine development efforts have been accelerated in response to the devastating COVID-19 pandemic. The study aims to determine the seroprevalence of SARS-CoV-2 IgG antibodies among vaccine-naïve healthcare workers and to describe the impact of vaccination roll-out on COVID-19 antibody prevalence among the [...] [Read more.](#)

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### [A Reflection of Metabolic Syndrome through the Window of COVID-19](#) ([/2076-393X/10/11/1966](#))

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[Chuen Wen Tan](#) (<https://sciprofiles.com/profile/author/d0NQZIZdmExV3EwNzJZMEtqWIRZKzVhdG9ta1g5Qno3cEpxUGZ0UCtiaz0=>),  
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,  
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[Su Yen Goh](#) (<https://sciprofiles.com/profile/author/c0MxZGlpVDR2bzlwQm4zVjJJYzIGZ3IGbldOVVIPOW1qV3ZSS2NXSzM4ST0=>).  
*Vaccines* **2022**, *10*(11), 1966; <https://doi.org/10.3390/vaccines10111966> (<https://doi.org/10.3390/vaccines10111966>) - 19 Nov 2022  
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**Abstract** COVID-19 and metabolic syndrome, though seemingly different disorders, appear to share certain common pathogenic components, especially in the development of COVID-19-associated diabetes mellitus. The similarities include impairment in immunoendothelial, gastrointestinal, pancreatic, adipose and mitochondrial functions, with several critical micronutrients undergirding the intricate interactions [...]. [Read more.](#)

(This article belongs to the Special Issue [Feature Papers of Clinical Immunology](#) ([/journal/vaccines/special\\_issues/FP\\_Clinical\\_Immunology](#)))

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### [COVID-19 Vaccination in Migrants and Refugees: Lessons Learnt and Good Practices](#) ([/2076-393X/10/11/1965](#))

by [Palmira Immordino](#) (<https://sciprofiles.com/profile/2045366>), [Davide Graci](#) (<https://sciprofiles.com/profile/2515828>),  
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[Walter Mazzucco](#) (<https://sciprofiles.com/profile/709059>)  
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**Abstract** The COVID-19 pandemic has exacerbated inequalities between low- and high-income countries. Within the latter, a greater impact is seen in the poorest and most vulnerable people, including refugees, asylum seekers, and migrants. They all may experience poor access to quality healthcare or have [...]. [Read more.](#)

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### [30-Minute Highly Multiplexed VaxArray Immunoassay for Pneumococcal Vaccine Antigen Characterization](#) ([/2076-393X/10/11/1964](#))

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[Erica D. Dawson](#) (<https://sciprofiles.com/profile/2442681>)

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**Abstract** Pneumonia accounts for over 20% of deaths worldwide in children aged 1 to 5 years, disproportionately affecting lower- and middle-income countries. Effective, highly multivalent pneumococcal vaccines are available to decrease disease burden, with numerous new vaccines currently under development to serve a variety [...]. [Read more.](#)

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**Advances in the Lung Cancer Immunotherapy Approaches (/2076-393X/10/11/1963)**

by [Hafiza Padinharayil](https://sciprofiles.com/profile/2197886) (<https://sciprofiles.com/profile/2197886>), [Reema Rose Alappat](https://sciprofiles.com/profile/2600879) (<https://sciprofiles.com/profile/2600879>),

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*Vaccines* **2022**, *10*(11), 1963; <https://doi.org/10.3390/vaccines10111963> (<https://doi.org/10.3390/vaccines10111963>) - 19 Nov 2022

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**Abstract** Despite the progress in the comprehension of LC progression, risk, immunologic control, and treatment choices, it is still the primary cause of cancer-related death. LC cells possess a very low and heterogeneous antigenicity, which allows them to passively evade the anticancer defense of [...]. [Read more.](#)

(This article belongs to the Special Issue [Cancer Immunology Focus: Cellular & Molecular Immunology \(/journal/vaccines/special\\_issues/Cancer\\_Immunology\\_Focus\)](#))

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**Differential Cell Line Susceptibility to the SARS-CoV-2 Omicron BA.1.1 Variant of Concern (/2076-393X/10/11/1962)**

by [Hitesh Dighe](https://sciprofiles.com/profile/2498092) (<https://sciprofiles.com/profile/2498092>),

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*Vaccines* **2022**, *10*(11), 1962; <https://doi.org/10.3390/vaccines10111962> (<https://doi.org/10.3390/vaccines10111962>) - 18 Nov 2022

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**Abstract** The unique mutations of the SARS-CoV-2 Omicron variant are associated with increased transmissibility, immune escape, increased binding affinity to ACE-2, and increased viral load. Omicron exhibited a shift in tropism infecting the upper respiratory tract compared to other variants of concern which have [...]. [Read more.](#)

(This article belongs to the Special Issue [Research on Immune Response and Vaccines \(/journal/vaccines/special\\_issues/Research\\_on\\_Immune\\_Response\\_and\\_Vaccines\)](#))

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**Plant-Produced S1 Subunit Protein of SARS-CoV-2 Elicits Immunogenic Responses in Mice** ([/2076-393X/10/11/1961](https://doi.org/10.3390/v10111961))

by [Chalisa Panapitakkul](https://sciprofiles.com/profile/author/dnNLb1hrRXZtU0NSbEE5UXILMCtJcTVKenVmSUIpNGZYNE9SdE9SMUpiND0=) (<https://sciprofiles.com/profile/author/dnNLb1hrRXZtU0NSbEE5UXILMCtJcTVKenVmSUIpNGZYNE9SdE9SMUpiND0=>), [Narach Khorattanakulchai](https://sciprofiles.com/profile/884284) (<https://sciprofiles.com/profile/884284>), [Kaewta Rattanapisit](https://sciprofiles.com/profile/author/TGRhZ3JwOE9hOFNlB0VqMIRFa3IVL0ZkcFUyY1BTUzhCMnQwZ0NmR1ZwVT0=) (<https://sciprofiles.com/profile/author/TGRhZ3JwOE9hOFNlB0VqMIRFa3IVL0ZkcFUyY1BTUzhCMnQwZ0NmR1ZwVT0=>), [Theerakarn Srisangsung](https://sciprofiles.com/profile/author/WTFoV3R1cTICUTgyeHYvNGVxdnNrNdKQnISWjBZA3BzM0dOQ1pJZDJZZFZsQW) (<https://sciprofiles.com/profile/author/WTFoV3R1cTICUTgyeHYvNGVxdnNrNdKQnISWjBZA3BzM0dOQ1pJZDJZZFZsQW>), [Balamurugan Shanmugaraj](https://sciprofiles.com/profile/1642412) (<https://sciprofiles.com/profile/1642412>), [Supranee Buranapraditkun](https://sciprofiles.com/profile/1963457) (<https://sciprofiles.com/profile/1963457>), [Chutitorn Ketloy](https://sciprofiles.com/profile/1703883) (<https://sciprofiles.com/profile/1703883>), [Eakachai Prompetchara](https://sciprofiles.com/profile/1521077) (<https://sciprofiles.com/profile/1521077>) and [Waranyoo Phoolcharoen](https://sciprofiles.com/profile/858856) (<https://sciprofiles.com/profile/858856>)

*Vaccines* **2022**, *10*(11), 1961; <https://doi.org/10.3390/vaccines10111961> (<https://doi.org/10.3390/vaccines10111961>) - 18 Nov 2022

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**Abstract** SARS-CoV-2 is responsible for the ongoing COVID-19 pandemic. The virus spreads rapidly with a high transmission rate among humans, and hence virus management has been challenging owing to finding specific therapies or vaccinations. Hence, an effective, low-cost vaccine is urgently required. In this [...] [Read more](#).

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**Bursal-Derived BP7 Induces the miRNA Molecular Basis of Chicken Macrophages and Promotes the Differentiation of B Cells** ([/2076-393X/10/11/1960](https://doi.org/10.3390/v10111960))

by [Jiaxi Cai](https://sciprofiles.com/profile/author/VjRFM2IZaIFGcEJxeHNxWm5maDc2a0hBVGFiZTMwNzg4RUJjZzBCUIR5bz0=) (<https://sciprofiles.com/profile/author/VjRFM2IZaIFGcEJxeHNxWm5maDc2a0hBVGFiZTMwNzg4RUJjZzBCUIR5bz0=>), [Ze Zhang](https://sciprofiles.com/profile/author/aHM5MGlRyJjFZm9SZndjSWgrTUNoRGhHNkgybk5VRI9rbG0vVIU4NkVXST0=) (<https://sciprofiles.com/profile/author/aHM5MGlRyJjFZm9SZndjSWgrTUNoRGhHNkgybk5VRI9rbG0vVIU4NkVXST0=>), [Chenfei Li](https://sciprofiles.com/profile/author/SXR4b2lrRzgzUzJORjImdmtWeHRSdjB1ays5M0psTVIoWjRMY3BWQIRKOD0=) (<https://sciprofiles.com/profile/author/SXR4b2lrRzgzUzJORjImdmtWeHRSdjB1ays5M0psTVIoWjRMY3BWQIRKOD0=>), [Shanshan Hao](https://sciprofiles.com/profile/author/eWNRZ2ZIMm9qa2pvZGQ2akVoQs9LcG9HQIjHmWVNY0djODIrVFBNKzdhND0=) (<https://sciprofiles.com/profile/author/eWNRZ2ZIMm9qa2pvZGQ2akVoQs9LcG9HQIjHmWVNY0djODIrVFBNKzdhND0=>), [Anran Lu](https://sciprofiles.com/profile/author/N3ZyQ1FHRHR6bnY1NDZzQmhwWi9WL1RUd2hscDNxb2tWQ3INcnBhVnNPaz0=) (<https://sciprofiles.com/profile/author/N3ZyQ1FHRHR6bnY1NDZzQmhwWi9WL1RUd2hscDNxb2tWQ3INcnBhVnNPaz0=>), [Xiangyu Huang](https://sciprofiles.com/profile/author/Q0pCZIM5VXpRUjJqMHP2TVB2K0pZcDmQkImT09KWUJrVERYnJYNjdpND0=) (<https://sciprofiles.com/profile/author/Q0pCZIM5VXpRUjJqMHP2TVB2K0pZcDmQkImT09KWUJrVERYnJYNjdpND0=>) and [Xiuli Feng](https://sciprofiles.com/profile/679585) (<https://sciprofiles.com/profile/679585>)

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**Abstract** The bursa of Fabricius (BF) is a vital central humoral immune organ unique to birds. The bioactive peptide BP7 derived from bursa is reported to promote the vaccine immune response and antibody production. However, the regulatory effect on antigen presentation and B cell [...] [Read more](#).

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### Clinical Presentation of COVID-19 and Antibody Responses in Bangladeshi Patients Infected with the Delta or Omicron Variants of SARS-CoV-2 (2076-393X/10/11/1959)

by [Asish Kumar Ghosh](https://sciprofiles.com/profile/1566186) (https://sciprofiles.com/profile/1566186), [Olfert Landt](https://sciprofiles.com/profile/author/aDViYVJGc01renpuR3EwQkUyNGE3V3Q2NHVBMTNiaVikT3M4ZHpeDtQzaz0=) (https://sciprofiles.com/profile/author/aDViYVJGc01renpuR3EwQkUyNGE3V3Q2NHVBMTNiaVikT3M4ZHpeDtQzaz0=), [Mahmuda Yeasmin](https://sciprofiles.com/profile/author/RExYYXQ2MDVPT3JIR2ZkdngzbGp1Z3d0aEJIZGFKNWZUMHpeYmkrZVZDYz0=) (https://sciprofiles.com/profile/author/RExYYXQ2MDVPT3JIR2ZkdngzbGp1Z3d0aEJIZGFKNWZUMHpeYmkrZVZDYz0=), [Mohiuddin Sharif](https://sciprofiles.com/profile/author/TWhMdS9nRGI0dm5mRHZ0TjJER1p5Sk9qaFE1eDBLNjR0RjhINDAawcWINWT0=) (https://sciprofiles.com/profile/author/TWhMdS9nRGI0dm5mRHZ0TjJER1p5Sk9qaFE1eDBLNjR0RjhINDAawcWINWT0=), [Rifat Hossain Ratul](https://sciprofiles.com/profile/author/SnhKWitsL0RxcGdnWWJkaER5SU5YbGt1ZTBHcHg4TjN1dkxET1htOGh1ND0=) (https://sciprofiles.com/profile/author/SnhKWitsL0RxcGdnWWJkaER5SU5YbGt1ZTBHcHg4TjN1dkxET1htOGh1ND0=), [Maruf Ahmed Molla](https://sciprofiles.com/profile/author/dzI3Yk1yTHIUNUVjR0VKeE5wRklocE9hb2RRexXNhZ0VmYnZCQkwrNjdJTT0=) (https://sciprofiles.com/profile/author/dzI3Yk1yTHIUNUVjR0VKeE5wRklocE9hb2RRexXNhZ0VmYnZCQkwrNjdJTT0=), [Tasnim Nafisa](https://sciprofiles.com/profile/author/NitDei94Qm8wRHJ1c095eDZGTzRmZmxncWFBdzBmbEtyWHI1aDR0UUwxaz0=) (https://sciprofiles.com/profile/author/NitDei94Qm8wRHJ1c095eDZGTzRmZmxncWFBdzBmbEtyWHI1aDR0UUwxaz0=), [Mymuna Binte Mosaddeque](https://sciprofiles.com/profile/author/bUxPbmtSVm9RbGVncFd2eFpBYTixM2pwV3RtczRVME9CZ2k0MXk2amduMD0=) (https://sciprofiles.com/profile/author/bUxPbmtSVm9RbGVncFd2eFpBYTixM2pwV3RtczRVME9CZ2k0MXk2amduMD0=), [Nur Hosen](https://sciprofiles.com/profile/author/bVRleHU2THF2dTFNcVFIZVg2L3F5dk5jaXU3clJxSFZuWkd2OWR2bmITTT0=) (https://sciprofiles.com/profile/author/bVRleHU2THF2dTFNcVFIZVg2L3F5dk5jaXU3clJxSFZuWkd2OWR2bmITTT0=), [Md. Rakibul Hassan Bulbul](https://sciprofiles.com/profile/1573542) (https://sciprofiles.com/profile/1573542), [Rashid Mamunur](https://sciprofiles.com/profile/author/d0NHVndFcTVXQmczSFNIMGQ3REJtM2xTdS9GZIJOUTFFME5VUnFBek9tST0=) (https://sciprofiles.com/profile/author/d0NHVndFcTVXQmczSFNIMGQ3REJtM2xTdS9GZIJOUTFFME5VUnFBek9tST0=), [Alimul Islam](https://sciprofiles.com/profile/1160789) (https://sciprofiles.com/profile/1160789), [Shahjahan Siddike Shakil](https://sciprofiles.com/profile/author/U2rVloxbWZiWHcyODJsd1gvYXJUWnNVVmRNzjRucXIDU3VoWII5MDZMaz0=) (https://sciprofiles.com/profile/author/U2rVloxbWZiWHcyODJsd1gvYXJUWnNVVmRNzjRucXIDU3VoWII5MDZMaz0=), [Marco Kaiser](https://sciprofiles.com/profile/1912842) (https://sciprofiles.com/profile/1912842), [Md. Robed Amin](https://sciprofiles.com/profile/406212) (https://sciprofiles.com/profile/406212) and [Simon D. Lytton](https://sciprofiles.com/profile/1559332) (https://sciprofiles.com/profile/1559332).

Vaccines 2022, 10(11), 1959; <https://doi.org/10.3390/vaccines10111959> (https://doi.org/10.3390/vaccines10111959) - 18 Nov 2022

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**Abstract** The clinical presentation of COVID-19 and the specific antibody responses associated with SARS-CoV-2 variants have not been investigated during the emergence of Omicron variants in Bangladesh. The Delta and Omicron variants were identified by post-PCR melting curve analysis of the spike (S) protein [...] [Read more.](#)

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### Parents' Attitudes toward Childhood Vaccines and COVID-19 Vaccines in a Turkish Pediatric Outpatient Population (2076-393X/10/11/1958)

by [Nihal Durmaz](https://sciprofiles.com/profile/author/Z3FBaXp3Sm8yYk9uQzNXbDRybVbJdVdaekU5Q1V1eU8wK09zMmZ2M005Yz0=) (https://sciprofiles.com/profile/author/Z3FBaXp3Sm8yYk9uQzNXbDRybVbJdVdaekU5Q1V1eU8wK09zMmZ2M005Yz0=), [Murat Suman](https://sciprofiles.com/profile/author/cFZwa09sWXJsQ3YrNDBrVEYzUmd3L0NLbTRkc0Z6WmFhVTEvUTR1TU9CVT0=) (https://sciprofiles.com/profile/author/cFZwa09sWXJsQ3YrNDBrVEYzUmd3L0NLbTRkc0Z6WmFhVTEvUTR1TU9CVT0=), [Murat Ersoy](https://sciprofiles.com/profile/author/bG9XZHRVOW9YdTBMRGdlZ1QwcHFPTkNUeUerVmZVb2pRejdBNOZONzBuQT0=) (https://sciprofiles.com/profile/author/bG9XZHRVOW9YdTBMRGdlZ1QwcHFPTkNUeUerVmZVb2pRejdBNOZONzBuQT0=) and [Emel Örün](https://sciprofiles.com/profile/author/dE5oNzB4ZmNzRVBkQjF0Q25SukQ5ZHhNUmxZZWhxdVo5KzVJaWJKTnNrcz0=) (https://sciprofiles.com/profile/author/dE5oNzB4ZmNzRVBkQjF0Q25SukQ5ZHhNUmxZZWhxdVo5KzVJaWJKTnNrcz0=).

Vaccines 2022, 10(11), 1958; <https://doi.org/10.3390/vaccines10111958> (https://doi.org/10.3390/vaccines10111958) - 18 Nov 2022

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**Abstract** Vaccination hesitancy (VH) is an important public health issue. The determinants of parental decisions on whether to vaccinate their children are multidimensional and need to be carefully considered in the COVID-19 era. Our study aims to investigate the prevalence of VH among parents, [...] [Read more.](#)

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### Parental Attitudes and Perceptions of Support after Brief Clinician Intervention Predict Intentions to Accept the Adjuvanted Seasonal Influenza Vaccination: Findings from the Pediatric Influenza Vaccination Optimization Trial (PIVOT)-I (2076-393X/10/11/1957)

by [William A. Fisher](https://sciprofiles.com/profile/2436085) (https://sciprofiles.com/profile/2436085), [Vladimir Gilca](https://sciprofiles.com/profile/1600530) (https://sciprofiles.com/profile/1600530), [Michelle Murti](https://sciprofiles.com/profile/author/K0pmTWI3QnZ0TC8wMVBfaDdXNmdDbHFVKjZ5Q1VFTUE5c3lqQXU4RjFnUT0=) (https://sciprofiles.com/profile/author/K0pmTWI3QnZ0TC8wMVBfaDdXNmdDbHFVKjZ5Q1VFTUE5c3lqQXU4RjFnUT0=), [Alison Orth](https://sciprofiles.com/profile/2469719) (https://sciprofiles.com/profile/2469719), [Hartley Garfield](https://sciprofiles.com/profile/author/aW4wMzd5MEM2UHd3MXIxSUM0SmovNnE1UEtXTRVazd3VmpKdEV5RE9RTT0=) (https://sciprofiles.com/profile/author/aW4wMzd5MEM2UHd3MXIxSUM0SmovNnE1UEtXTRVazd3VmpKdEV5RE9RTT0=), and [Paul Roumeliotis](https://sciprofiles.com/profile/2468936) (https://sciprofiles.com/profile/2468936), [Emmanouil Rampakakis](https://sciprofiles.com/profile/2521886) (https://sciprofiles.com/profile/2521886).

Vaccines 2022, 10(11), 1957; <https://doi.org/10.3390/vaccines10111957> (https://doi.org/10.3390/vaccines10111957) - 18 Nov 2022

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**Abstract** The COVID-19 pandemic has highlighted the importance of vaccination. Parental attitudes and perceptions of support after brief clinician intervention predict intentions to accept the adjuvanted seasonal influenza vaccination. [...] [Read more.](#)

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*Vaccines* 2022, 10(11), 1957; <https://doi.org/10.3390/vaccines10111957> (<https://doi.org/10.3390/vaccines10111957>), - 18 Nov 2022

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**Abstract** Adjuvanted trivalent influenza vaccine (aTIV) provides enhanced protection against seasonal influenza in children compared with nonadjuvanted trivalent influenza vaccine (TIV). This prospective cohort study assessed parental attitudes, beliefs, and intentions to vaccinate their infants aged 6–23 months with aTIV. Parents were surveyed before [...] [Read more.](#)

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### **Seroprevalence of Varicella-Zoster Virus and Measles among Healthcare Workers in a Tertiary Medical Center in Korea** ([/2076-393X/10/11/1956](#))

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*Vaccines* 2022, 10(11), 1956; <https://doi.org/10.3390/vaccines10111956> (<https://doi.org/10.3390/vaccines10111956>), - 18 Nov 2022

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**Abstract** Measles and varicella still occur in the general population despite the widespread vaccination against them, and healthcare workers (HCWs) are still at risk of exposure to these diseases. Here, we evaluated the seroprevalence of measles and varicella-zoster virus (VZV) in HCWs and the [...] [Read more.](#)

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### **Clinicians Are Not Able to Infer Parental Intentions to Vaccinate Infants with a Seasonal Influenza Vaccine, and Perhaps They Should Not Try: Findings from the Pediatric Influenza Vaccination Optimization Trial (PIVOT)–IV** ([/2076-393X/10/11/1955](#))

by [William A. Fisher](https://sciprofiles.com/profile/2436085) (<https://sciprofiles.com/profile/2436085>), [Vladimir Gilca](https://sciprofiles.com/profile/1600530) (<https://sciprofiles.com/profile/1600530>),  
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*Vaccines* 2022, 10(11), 1955; <https://doi.org/10.3390/vaccines10111955> (<https://doi.org/10.3390/vaccines10111955>), - 18 Nov 2022

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**Abstract** This prospective cohort survey evaluated the concordance of clinicians' perceptions of parental intentions and parents' actual intentions to vaccinate their infants against influenza. During a routine healthy baby visit, clinicians provided parents with information about influenza, children's vulnerability to influenza, and nonadjuvanted and [...] [Read more.](#)

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**Real-World Immunogenicity and Reactogenicity of Two Doses of Pfizer-BioNTech COVID-19 Vaccination in Children Aged 5–11 Years** ([/2076-393X/10/11/1954](#))

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*Vaccines* 2022, 10(11), 1954; <https://doi.org/10.3390/vaccines10111954> (<https://doi.org/10.3390/vaccines10111954>) - 18 Nov 2022  
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**Abstract** There are limited data concerning the immunogenicity and reactogenicity of COVID-19 vaccines in children. A total of 110 children, 5–11 years old were vaccinated with two doses (with a 3-week interval between doses) of the Pfizer-BioNTech COVID-19 vaccine and were followed for 21, [...]. [Read more.](#) (This article belongs to the Special Issue **Research in Vaccine Epidemiology: Immunogenicity, Effectiveness, and Safety** ([/journal/vaccines/special\\_issues/Vaccine\\_Epidemiology](/journal/vaccines/special_issues/Vaccine_Epidemiology)))

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**Protecting the Offspring, the Gift of Maternal Immunization: Current Status and Future Perspectives** ([/2076-393X/10/11/1953](https://doi.org/10.3390/v10111953))

by [Theano Lagousi](https://sciprofiles.com/profile/574299) (<https://sciprofiles.com/profile/574299>), [Despoina Gkentzi](https://sciprofiles.com/profile/1660456) (<https://sciprofiles.com/profile/1660456>),  
[Maria Geropeppa](https://sciprofiles.com/profile/author/QmJzRGUxT3NCZDFMdkx2OVh5c2d5NU16amRUSW1NTWFQd2RydDFNNFRQaz0=) (<https://sciprofiles.com/profile/author/QmJzRGUxT3NCZDFMdkx2OVh5c2d5NU16amRUSW1NTWFQd2RydDFNNFRQaz0=>),  
[Panagiota Tsagkli](https://sciprofiles.com/profile/2558789) (<https://sciprofiles.com/profile/2558789>) and [Vana Spoulou](https://sciprofiles.com/profile/619713) (<https://sciprofiles.com/profile/619713>)  
*Vaccines* 2022, 10(11), 1953; <https://doi.org/10.3390/vaccines10111953> (<https://doi.org/10.3390/vaccines10111953>) - 18 Nov 2022  
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**Abstract** Pregnancy is characterized by immunological alterations in pregnant women that permit the growth of a semi-allogenic fetus, resulting in greater susceptibility of childbearing women to infections. Furthermore, due to the immaturity of the immune system of neonates, a protection gap is present in [...]. [Read more.](#)

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**Determining the SARS-CoV-2 Anti-Spike Cutoff Level Denoting Neutralizing Activity Using Two Commercial Kits** ([/2076-393X/10/11/1952](https://doi.org/10.3390/v10111952))

by [Engy Mohamed El-Ghitany](https://sciprofiles.com/profile/1903494) (<https://sciprofiles.com/profile/1903494>), [Mona H. Hashish](https://sciprofiles.com/profile/2346062) (<https://sciprofiles.com/profile/2346062>),  
[Azza Galal Farghaly](https://sciprofiles.com/profile/author/MXh0WTFrSkgwWERrMXJWb2FQa20vb05DMEQxNVJUdW9U3VLVIRzMWtTcz0=) (<https://sciprofiles.com/profile/author/MXh0WTFrSkgwWERrMXJWb2FQa20vb05DMEQxNVJUdW9U3VLVIRzMWtTcz0=>) and  
[Eman A. Omran](https://sciprofiles.com/profile/2307688) (<https://sciprofiles.com/profile/2307688>)  
*Vaccines* 2022, 10(11), 1952; <https://doi.org/10.3390/vaccines10111952> (<https://doi.org/10.3390/vaccines10111952>) - 18 Nov 2022  
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**Abstract** Background: The viral neutralization assay is the gold standard to estimate the level of immunity against SARS-CoV-2. This study analyzes the correlation between the quantitative Anti-SARS-CoV-2 QuantiVac ELISA (IgG) and the NeutralISA neutralization assay. Methods: 650 serum samples were tested for both SARS-CoV-2 [...]. [Read more.](#)

(This article belongs to the Special Issue **Unraveling SARS-CoV-2 Pathogenesis: Development of Vaccines and Therapeutics for COVID-19: Version II** ([/journal/vaccines/special\\_issues/COVID\\_Vaccine](/journal/vaccines/special_issues/COVID_Vaccine))).

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### Subnational Gender Inequality and Childhood Immunization: An Ecological Analysis of the Subnational Gender Development Index and DTP Coverage Outcomes across 57 Countries ((2076-393X/10/11/1951))

by [Nicole E. Johns](https://sciprofiles.com/profile/2180314) (<https://sciprofiles.com/profile/2180314>),  
[Katherine Kirkby](https://sciprofiles.com/profile/author/c311OVM3amx4dXR0N0s5N2lvWlU3Zz09) (<https://sciprofiles.com/profile/author/c311OVM3amx4dXR0N0s5N2lvWlU3Zz09>),  
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[Stephanie Shendale](https://sciprofiles.com/profile/author/S1JtaEhOYkZLcXkwWEw4SmVBbkVxMGRWWTV2M2NxcGwrjdVHbnJSOGhCbz0=) (<https://sciprofiles.com/profile/author/S1JtaEhOYkZLcXkwWEw4SmVBbkVxMGRWWTV2M2NxcGwrjdVHbnJSOGhCbz0=>),

and

[Ahmad Reza Hosseinpoor](https://sciprofiles.com/profile/2046095) (<https://sciprofiles.com/profile/2046095>)

*Vaccines* **2022**, *10*(11), 1951; <https://doi.org/10.3390/vaccines10111951> (<https://doi.org/10.3390/vaccines10111951>) - 18 Nov 2022

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**Abstract** The role of gender inequality in childhood immunization is an emerging area of focus for global efforts to improve immunization coverage and equity. Recent studies have examined the relationship between gender inequality and childhood immunization at national as well as individual levels; we [...] [Read more.](#)

(This article belongs to the Special Issue [Inequality in Immunization](#) ([/journal/vaccines/special\\_issues/3VPV7OD2W5/](/journal/vaccines/special_issues/3VPV7OD2W5/)))

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### Portal Vein and Mesenteric Artery Thrombosis Following the Administration of an Ad26.COVID-S Vaccine—First Case from Romania: A Case Report ((2076-393X/10/11/1950))

by [Florin Savulescu](https://sciprofiles.com/profile/2551981) (<https://sciprofiles.com/profile/2551981>),  
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[Alexandra Bianca Petrescu](https://sciprofiles.com/profile/2589361) (<https://sciprofiles.com/profile/2589361>) and [Cristian Blajut](https://sciprofiles.com/profile/2530770) (<https://sciprofiles.com/profile/2530770>)

*Vaccines* **2022**, *10*(11), 1950; <https://doi.org/10.3390/vaccines10111950> (<https://doi.org/10.3390/vaccines10111950>) - 18 Nov 2022

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**Abstract** COVID-19 has significantly affected public health, social life, and economies worldwide. The only effective way to combat the pandemic is through vaccines. Although the vaccines have been in use for some time, safety concerns have still been raised. The most typical adverse effects [...] [Read more.](#)

(This article belongs to the Special Issue [Adverse Events of COVID-19 Vaccines](#) ([/journal/vaccines/special\\_issues/Adverse\\_Vaccines/](/journal/vaccines/special_issues/Adverse_Vaccines/)))

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### Insight into Prevention of *Neisseria Gonorrhoeae*: A Short Review ((2076-393X/10/11/1949))

by [Vincenza La Fauci](https://sciprofiles.com/profile/596931) (<https://sciprofiles.com/profile/596931>), [Daniela Lo Giudice](https://sciprofiles.com/profile/2497917) (<https://sciprofiles.com/profile/2497917>),  
[Wenjie Ren](https://sciprofiles.com/profile/1949358) (<https://sciprofiles.com/profile/1949358>), [Cristina Genovese](https://sciprofiles.com/profile/1949358) (<https://sciprofiles.com/profile/1949358>),  
[Vedrana Zec](https://sciprofiles.com/profile/1949358) (<https://sciprofiles.com/profile/1949358>)

*Vaccines* **2022**, *10*(11), 1949; <https://doi.org/10.3390/vaccines10111949> (<https://doi.org/10.3390/vaccines10111949>) - 18 Nov 2022

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**Abstract** *Neisseria gonorrhoeae* (gonococcus) and *Neisseria meningitidis* (meningococcus) are important global pathogens which cause the transmitted diseases gonorrhea and meningitis, respectively, as well as sepsis. We prepared a review according to the preferred reporting items for systematic

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reviews and meta-analyses (PRISMA), with the [...] [Read more](#).

(This article belongs to the Special Issue [Measure to Improve Vaccination Coverage In at Risk Categories: Pregnant Women, Healthcare Workers and Patients with Chronic Diseases](#) ([/journal/vaccines/special\\_issues/vaccination\\_pregnancy](#)))



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[./\(2076-393X/10/11/1948/pdf?version=1669087533\)](#)

### [Kinetics of Humoral Immunity against SARS-CoV-2 in Healthcare Workers after the Third Dose of BNT162b2 mRNA Vaccine](#) ([/2076-393X/10/11/1948](#))

by [Tiziana Grassi](#) (<https://sciprofiles.com/profile/1347820>),

[Giambattista Lobreglio](#) (<https://sciprofiles.com/profile/author/MGFOZVJFbmxYMHh1U0lrRCsyaHhwaVA2VmE4aXhXY3c1RE4zckU5dIprvRG4zL3dP>),

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[Francesco Bagordo](#) (<https://sciprofiles.com/profile/2216037>).

*Vaccines* 2022, 10(11), 1948; <https://doi.org/10.3390/vaccines10111948> (<https://doi.org/10.3390/vaccines10111948>) - 17 Nov 2022

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**Abstract** Protection provided by COVID-19 vaccines is compromised due to waning immunity over time. This study aimed to assess the level of antibodies anti-S-RBD of SARS-CoV-2 in a cohort of healthcare workers before and, on average, one and four months after the third dose [...] [Read more](#).

(This article belongs to the Special Issue [Vaccination and Virus Epidemic Control](#) ([/journal/vaccines/special\\_issues/vaccine\\_epidemic\\_control](#)))

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### [The Impact of Cultural Capital on Vaccine Attitudes among the Slovenian Public](#) ([/2076-393X/10/11/1947](#))

by [Andrej Kirbiš](#) (<https://sciprofiles.com/profile/1830011>).

*Vaccines* 2022, 10(11), 1947; <https://doi.org/10.3390/vaccines10111947> (<https://doi.org/10.3390/vaccines10111947>) - 17 Nov 2022

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**Abstract** Education and highbrow cultural participation—two dimensions of cultural capital—have previously been identified as determinants of vaccine attitudes, though the links have been mainly inconsistent across studies. The present quantitative study aimed to examine the effects of two dimensions of cultural capital (institutionalized and [...]) [Read more](#).

(This article belongs to the Special Issue [COVID-19 Vaccination, Role of Vaccines and Global Health](#) ([/journal/vaccines/special\\_issues/CRG](#)))

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### [Nanoparticle-Based Delivery Systems for Vaccines](#) ([/2076-393X/10/11/1946](#))

by [Rajashri Bezbaruah](#) (<https://sciprofiles.com/profile/author/bmxIKzFjVVhBV2R5RUM3UUZOUEJmQWlYeWRuUFJLRWZNRjBWRmwzN002Zz0=>),

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[Bedanta Bhattacharjee](#) (<https://sciprofiles.com/profile/1686443>) and [Lalitkumar Vora](#) (<https://sciprofiles.com/profile/1548814>).

*Vaccines* 2022, 10(11), 1946; <https://doi.org/10.3390/vaccines10111946> (<https://doi.org/10.3390/vaccines10111946>) - 17 Nov 2022

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**Abstract** Vaccination is still the most cost-effective way to combat infectious illnesses. Conventional vaccinations may have low immunogenicity and, in most situations, only provide partial protection. A new class of nanoparticle-based vaccinations has shown considerable promise in addressing the majority of the shortcomings of [...] [Read more](#).

(This article belongs to the Special Issue [Role of Nanoparticles in Vaccines and Pharmaceuticals](#) ([/journal/vaccines/special\\_issues/Role\\_of\\_Nanoparticles\\_in\\_Vaccines\\_and\\_Pharmaceuticals](#)))

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Knowledge, Attitude and Practice towards the COVID-19 Pandemic: A Cross-Sectional Survey Study among the General Public in the Kingdom of Saudi Arabia (2076-393X/10/11/1945)

by Namdeo Prabhu, Meshal Aber Alonazi, Hmoud Ali Algarni, Rakhi Issrani, Sarah Hatab Alanazi, Mohammed Katib Alruwaili, Gharam Radhi Alanazi, Azhar Iqbal and Osama Khattak

Vaccines 2022, 10(11), 1945; https://doi.org/10.3390/vaccines10111945

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Abstract Background: The novel coronavirus disease 2019 (COVID-19) is an infectious disease that has been spreading worldwide in an unprecedented manner. The knowledge, attitude and practices of the general population play a vital role in prevention of COVID-19. Objectives: The present study aimed to

(This article belongs to the Special Issue COVID-19 and Dentistry: Knowledge and Attitude towards Infections, Immunity and Vaccination)

COVID-19 Vaccination Hesitancy in Mexico City among Healthy Adults and Adults with Chronic Diseases: A Survey of Complacency, Confidence, and Convenience Challenges in the Transition to Endemic Control (2076-393X/10/11/1944)

by Miguel Ángel González-Block

Emilio Gutiérrez-Calderón

and

Elsa Sarti

Vaccines 2022, 10(11), 1944; https://doi.org/10.3390/vaccines10111944

Cited by 1 (2076-393X/10/11/1944#metrics) | Viewed by 718

Abstract Background. Monitoring of SARS-COV-2 vaccine hesitancy is important for epidemic control. We measured vaccine hesitancy among healthy adults and adults with chronic diseases after they had been offered the first dose of the vaccine in Mexico City. Methods. An observational cross-sectional study was

(This article belongs to the Special Issue Vaccination Strategies for COVID-19)

The Vaccine World of COVID-19: India's Contribution (2076-393X/10/11/1943)

by Vivek P. Chavda, Disha R. Vihol

Hetvi K. Solanki

and

Vasso Apostolopoulos

Vaccines 2022, 10(11), 1943; https://doi.org/10.3390/vaccines10111943

Cited by 4 (2076-393X/10/11/1943#metrics) | Viewed by 1457

Abstract The severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) eruption has left not only illness and mortality in its wake, but also an overwhelming threat to health policy, human regality, food security, and struggle worldwide. The accessibility and potential distribution of a protective and

(This article belongs to the Special Issue Immune Responses to SARS-CoV-2 Infection and Vaccination)

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Advances of Electroporation-Related Therapies and the Synergy with Immunotherapy in Cancer Treatment (2076-393X/10/11/1942)

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*Vaccines* **2022**, *10*(11), 1942; <https://doi.org/10.3390/vaccines10111942> (<https://doi.org/10.3390/vaccines10111942>), - 17 Nov 2022

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**Abstract** Electroporation is the process of instantaneously increasing the permeability of a cell membrane under a pulsed electric field. Depending on the parameters of the electric pulses and the target cell electrophysiological characteristics, electroporation can be either reversible or irreversible. Reversible electroporation facilitates the [...] [Read more.](#)

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**Interactions of Microbiota and Mucosal Immunity in the Ceca of Broiler Chickens Infected with *Eimeria tenella*** ([/2076-393X/10/11/1941](#))

by [Janghan Choi](https://sciprofiles.com/profile/1372421) (<https://sciprofiles.com/profile/1372421>) and [Wookyun Kim](https://sciprofiles.com/profile/142703) (<https://sciprofiles.com/profile/142703>)

*Vaccines* **2022**, *10*(11), 1941; <https://doi.org/10.3390/vaccines10111941> (<https://doi.org/10.3390/vaccines10111941>), - 17 Nov 2022

**Cited by 1** ([/2076-393X/10/11/1941#metrics](#)) | Viewed by 804

**Abstract** The purpose of the study was to investigate the effects of *Eimeria tenella* infection on the cecal microbiome, the protein concentration of cecal content, cecal mucosal immunity, and serum endotoxin levels in broilers. Three hundred sixty 14-day-old broilers were allocated to five infection [...] [Read more.](#)

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**Preparedness for the Dengue Epidemic: Vaccine as a Viable Approach** ([/2076-393X/10/11/1940](#))

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*Vaccines* **2022**, *10*(11), 1940; <https://doi.org/10.3390/vaccines10111940> (<https://doi.org/10.3390/vaccines10111940>), - 17 Nov 2022

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**Abstract** Dengue fever is one of the significant fatal mosquito-borne viral diseases and is considered to be a worldwide problem. *Aedes* mosquito is responsible for transmitting various serotypes of dengue viruses to humans. Dengue incidence has developed prominently throughout the world in the last [...] [Read more.](#)

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⌵ [./\(2076-393X/10/11/1939/pdf?version=1669096722\)](#)

### [Generation of a Live-Attenuated Strain of Chikungunya Virus from an Indian Isolate for Vaccine Development](#) ([/2076-393X/10/11/1939](#))

by [Sreeja R. Nair](#) (<https://sciprofiles.com/profile/2570773>), [Rachy Abraham](#) (<https://sciprofiles.com/profile/1494879>) and

[Easwaran Sreekumar](#) (<https://sciprofiles.com/profile/2515397>)

*Vaccines* **2022**, *10*(11), 1939; <https://doi.org/10.3390/vaccines10111939> (<https://doi.org/10.3390/vaccines10111939>) - 16 Nov 2022

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**Abstract** Chikungunya virus (CHIKV) re-emergence in the last decade has resulted in explosive epidemics. Along with the classical symptoms of fever and debilitating arthralgia, there were occurrences of unusual clinical presentations such as neurovirulence and mortality. These generated a renewed global interest to develop [...] [Read more.](#)

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⌵ [./\(2076-393X/10/11/1938/pdf?version=1668581675\)](#)

### [Does Measles, Mumps, and Rubella \(MMR\) Vaccination Protect against COVID-19 Outcomes: A Nationwide Cohort Study](#) ([/2076-393X/10/11/1938](#))

by [Epiphane Kolla](#) (<https://sciprofiles.com/profile/2531712>),

[Alain Weill](#) (<https://sciprofiles.com/profile/author/c1VvY0ltyc9mS0xIzRlT0xkcWZKaU5FTi9qSnVjdXcyR3czclpIN2ZVQmZ1VytuUkVvTFQxSkFhMy>)

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*Vaccines* **2022**, *10*(11), 1938; <https://doi.org/10.3390/vaccines10111938> (<https://doi.org/10.3390/vaccines10111938>) - 16 Nov 2022

**Cited by 1** ([/2076-393X/10/11/1938#metrics](#)) | Viewed by 1992

**Abstract** Cross-protection from previous live attenuated vaccines is proposed to explain the low impact of COVID-19 on children. This study aimed to evaluate the effect of live attenuated MMR vaccines on the risk of being hospitalized for COVID-19 in children. An exposed (MMR vaccine)–non-exposed [...] [Read more.](#)

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⌵ [./\(2076-393X/10/11/1937/pdf?version=1669023527\)](#)

### [A Systematic Review on Vaccine Hesitancy in Black Communities in Canada: Critical Issues and Research Failures](#) ([/2076-393X/10/11/1937](#))

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*Vaccines* 2022, 10(11), 1937; <https://doi.org/10.3390/vaccines10111937> (<https://doi.org/10.3390/vaccines10111937>), - 15 Nov 2022

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**Abstract** Black communities have been disproportionately impacted by Coronavirus Disease 2019 (COVID-19) in Canada, in terms of both number of infections and mortality rates. Yet, according to early studies, vaccine hesitancy appears to be higher in Black communities. The purpose of this systematic review [...] [Read more.](#)



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  ([/2076-393X/10/11/1936/pdf?version=1669019030](https://doi.org/10.3390/vaccines10111936/pdf?version=1669019030))

**Vaccinating Meat Chickens against *Campylobacter* and *Salmonella*: A Systematic Review and Meta-Analysis** ([/2076-393X/10/11/1936](#))

by [Adriana C. Castelo Taboada](https://sciprofiles.com/profile/2484042) (<https://sciprofiles.com/profile/2484042>) and [Anthony Pavic](https://sciprofiles.com/profile/2346537) (<https://sciprofiles.com/profile/2346537>)

*Vaccines* 2022, 10(11), 1936; <https://doi.org/10.3390/vaccines10111936> (<https://doi.org/10.3390/vaccines10111936>), - 15 Nov 2022

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**Abstract** Foodborne enteritis is a major disease burden globally. Two of the most common causative bacterial enteropathogens in humans are *Campylobacter* and *Salmonella* species which are strongly associated with the consumption of raw or contaminated chicken. The poultry industry has approached this issue by [...] [Read more.](#)




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  ([/2076-393X/10/11/1935/pdf?version=1668507544](https://doi.org/10.3390/vaccines10111935/pdf?version=1668507544)) 

**Single-Shot ChAd3-MARV Vaccine in Modified Formulation Buffer Shows 100% Protection of NHPs** ([/2076-393X/10/11/1935](#))

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*Vaccines* 2022, 10(11), 1935; <https://doi.org/10.3390/vaccines10111935> (<https://doi.org/10.3390/vaccines10111935>), - 15 Nov 2022

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**Abstract** Marburg virus (MARV) is a virus of high human consequence with a case fatality rate of 24–88%. The global health and national security risks posed by Marburg virus disease (MVD) underscore the compelling need for a prophylactic vaccine, but no candidate has yet [...] [Read more.](#)

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⌵ [./2076-393X/10/11/1934/pdf?version=1668656148](#) 🔗

**[Persisting Vaccine Hesitancy in Africa: The Whys, Global Public Health Consequences and Ways-Out—COVID-19 Vaccination Acceptance Rates as Case-in-Point](#)** ([/2076-393X/10/11/1934](#))

by [Emmanuel O. Njoga](#) (<https://sciprofiles.com/profile/1132969>), [Olajaju J. Awoyomi](#) (<https://sciprofiles.com/profile/1239460>), [Onyinye S. Onwumere-Idolor](#) (<https://sciprofiles.com/profile/author/NWJtNFMxdWhBaXJFRnZubFc4MHd2N3i4UHU3NGc1azkzY1c4NU9VMIZxTT0=>),

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*Vaccines* **2022**, *10*(11), 1934; <https://doi.org/10.3390/vaccines10111934> (<https://doi.org/10.3390/vaccines10111934>), - 15 Nov 2022

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**Abstract** Vaccine hesitancy (VH) is the seventh among the WHO's top 10 threats to global public health, which has continued to perpetuate the transmission of vaccine preventable diseases (VPDs) in Africa. Consequently, this paper systematically reviewed COVID-19 vaccine acceptance rates (VARs)—including the vaccine uptake [...]. [Read more.](#)

(This article belongs to the Special Issue [Management of National and Regional Immunization Programmes: Current Challenges and Future Strategies](#) ([/journal/vaccines/special\\_issues/ANYI5TG1V0](#).)

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**[Does the COVID-19 Vaccination Rate Change According to the Education and Income: A Study on Vaccination Rates in Cities of Turkey between 2021-September and 2022-February](#)** ([/2076-393X/10/11/1933](#))

by [Beyza Cengiz](#) (<https://sciprofiles.com/profile/2427982>), [Mustafa Ünal Sayılır](#) (<https://sciprofiles.com/profile/2585844>),

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*Vaccines* **2022**, *10*(11), 1933; <https://doi.org/10.3390/vaccines10111933> (<https://doi.org/10.3390/vaccines10111933>), - 15 Nov 2022

**Cited by 4** ([/2076-393X/10/11/1933#metrics](#)) | Viewed by 887

**Abstract** Background: The increase in the coronavirus disease 2019 (COVID-19) vaccination rates in Turkey and in the world plays a key role in reducing the number of deaths and cases from COVID-19. Investigating the underlying causes of COVID-19 vaccine hesitations seems to be a [...]. [Read more.](#)

(This article belongs to the Special Issue [The Effect of COVID-19 Vaccine Acceptance, Intention, and/or Hesitancy and Its Association with Our Health and/or Important Areas of Functioning](#) ([/journal/vaccines/special\\_issues/ALV8UPZGDZ](#).)

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## Trained Immunity as a Prospective Tool against Emerging Respiratory Pathogens (/2076-393X/10/11/1932)

by  [John Joseph \(https://sciprofiles.com/profile/2405650\)](https://sciprofiles.com/profile/2405650)

*Vaccines* **2022**, *10*(11), 1932; <https://doi.org/10.3390/vaccines10111932> (<https://doi.org/10.3390/vaccines10111932>) - 15 Nov 2022

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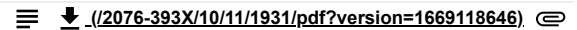
**Abstract** Although parental vaccines offer long-term protection against homologous strains, they rely exclusively on adaptive immune memory to produce neutralizing antibodies that are ineffective against emerging viral variants. Growing evidence highlights the multifaceted functions of trained immunity to elicit a rapid and enhanced innate [...]. [Read more.](#)

(This article belongs to the Special Issue [Feature Papers of Pathogens-Host Immune Interface \(/journal/vaccines/special\\_issues/Pathogens\\_host\\_vaccines\)](#))

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## Long-Term CD4<sup>+</sup> T-Cell and Immunoglobulin G Immune Responses in Oncology Workers following COVID-19 Vaccination: An Interim Analysis of a Prospective Cohort Study (/2076-393X/10/11/1931)


by  [Corey Gallen \(https://sciprofiles.com/profile/2566254\)](https://sciprofiles.com/profile/2566254),  [Christopher W. Dukes \(https://sciprofiles.com/profile/2593227\)](https://sciprofiles.com/profile/2593227),



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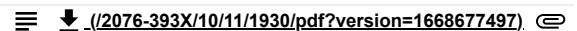
**Abstract** We conducted a prospective study to evaluate immune responses to SARS-CoV-2 in oncology workers in which we collected blood and clinical data every 6 months. Spike-specific CD4<sup>+</sup> T-cells and immunoglobulin G responses were measured using interferon-gamma enzyme-linked immunosorbent spot and enzyme-linked immunosorbent [...]. [Read more.](#)

(This article belongs to the Special Issue [Antibody Response of Vaccines to SARS-CoV-2 \(/journal/vaccines/special\\_issues/vaccines\\_antibody\)](#))

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## Perceptions of COVID-19 Maternal Vaccination among Pregnant Women and Healthcare Workers and Factors That Influence Vaccine Acceptance: A Cross-Sectional Study in Barcelona, Spain (/2076-393X/10/11/1930)


by  [Elena Marbán-Castro \(https://sciprofiles.com/profile/1108380\)](https://sciprofiles.com/profile/1108380),  [Ivana Nedic \(https://sciprofiles.com/profile/2558700\)](https://sciprofiles.com/profile/2558700),

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*Vaccines* **2022**, *10*(11), 1930; <https://doi.org/10.3390/vaccines10111930> (<https://doi.org/10.3390/vaccines10111930>) - 15 Nov 2022

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COVID-19 is associated with poor maternal and pregnancy outcomes. COVID-19 vaccination is recommended in Spain, yet vaccination rates in pregnancy are suboptimal. This study investigates the perceptions of pregnant women and healthcare workers (HCW) regarding COVID-19 vaccination. A web-based cross-sectional quantitative study was [...]. [Read more.](#)

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(This article belongs to the Special Issue [Vaccination Intention against the COVID-19 Pandemic \(/journal/vaccines/special\\_issues/Intention\\_against\\_COVID\\_19\)](#))

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### Twitter-Based Sentiment Analysis and Topic Modeling of Social Media Posts Using Natural Language Processing, to Understand People's Perspectives Regarding COVID-19 Booster Vaccine Shots in India: Crucial to Expanding Vaccination Coverage ([/2076-393X/10/11/1929](https://doi.org/10.3390/vaccines10111929))

by [Praveen SV](https://sciprofiles.com/profile/2423001) (<https://sciprofiles.com/profile/2423001>), [Jose Manuel Lorenz](https://sciprofiles.com/profile/286548) (<https://sciprofiles.com/profile/286548>), [Rajesh Ittamalla](https://sciprofiles.com/profile/author/ZWRVTStZazNOU256dnZnaXgweG82WUNEQ2F2UEppqdmqXVIpNby9FMXZudz0=) (<https://sciprofiles.com/profile/author/ZWRVTStZazNOU256dnZnaXgweG82WUNEQ2F2UEppqdmqXVIpNby9FMXZudz0=>), [Kuldeep Dhama](https://sciprofiles.com/profile/484435) (<https://sciprofiles.com/profile/484435>), [Chiranjib Chakraborty](https://sciprofiles.com/profile/584498) (<https://sciprofiles.com/profile/584498>), [Daruri Venkata Srinivas Kumar](https://sciprofiles.com/profile/author/Ynp5OEN6SEx1NXNrZHYzZS9UdWxwd1JrZzhOUdscDAwSVpwM1RZdThFa) (<https://sciprofiles.com/profile/author/Ynp5OEN6SEx1NXNrZHYzZS9UdWxwd1JrZzhOUdscDAwSVpwM1RZdThFa>) and [Thivya Mohan](https://sciprofiles.com/profile/2576272) (<https://sciprofiles.com/profile/2576272>)

*Vaccines* **2022**, *10*(11), 1929; <https://doi.org/10.3390/vaccines10111929> (<https://doi.org/10.3390/vaccines10111929>) - 15 Nov 2022

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**Abstract** This study analyzed perceptions of Indians regarding COVID-19 booster dose vaccines using natural language processing techniques, particularly, sentiment analysis and topic modeling. We analyzed tweets generated by Indian citizens for this study. In late July 2022, the Indian government hastened the process of [...] [Read more](#).

(This article belongs to the Collection [COVID-19 Vaccine Hesitancy: Correlates and Interventions](#) ([/journal/vaccines/topical\\_collections/COVID\\_Vaccine\\_Hesitancy](https://doi.org/10.3390/vaccines10111929#collection)))

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### Hepatitis B, C, and D Virus Infection among Population Aged 10–64 Years in Mongolia: Baseline Survey Data of a Nationwide Cancer Cohort Study ([/2076-393X/10/11/1928](https://doi.org/10.3390/vaccines10111928))

by [Davaalkham Dambadarjaa](https://sciprofiles.com/profile/1876219) (<https://sciprofiles.com/profile/1876219>), [Otgonbayar Radnaa](https://sciprofiles.com/profile/author/TE11V3NJmZnSVdpSGZpVmtmTE9NeHNPU29id3cxQm4ralRVUTZpRFpvWT0=) (<https://sciprofiles.com/profile/author/TE11V3NJmZnSVdpSGZpVmtmTE9NeHNPU29id3cxQm4ralRVUTZpRFpvWT0=>), [Ser-Od Khuyag](https://sciprofiles.com/profile/1946726) (<https://sciprofiles.com/profile/1946726>), [Qyu-Erdene Shagdarsuren](https://sciprofiles.com/profile/author/aUQ1aIEvTTRITk9IdUFKaU1QSINYcIFOQmZab3FCcGk5b3FvalI6V1BkYz0=) (<https://sciprofiles.com/profile/author/aUQ1aIEvTTRITk9IdUFKaU1QSINYcIFOQmZab3FCcGk5b3FvalI6V1BkYz0=>), [Uranbaigali Enkhbayar](https://sciprofiles.com/profile/author/aVAvcFcyVjg0bFlxeDikRS9yOUEXVnV5Y3VJbGhQV3IXaDFqcTlJS1pyYz0=) (<https://sciprofiles.com/profile/author/aVAvcFcyVjg0bFlxeDikRS9yOUEXVnV5Y3VJbGhQV3IXaDFqcTlJS1pyYz0=>), [Yerkyebulan Mukhtar](https://sciprofiles.com/profile/author/SWkyN1FKZHBKdGNrZUN5M1hYREditURBS2NJV2g5U2U0cIBqJllafJaWT0=) (<https://sciprofiles.com/profile/author/SWkyN1FKZHBKdGNrZUN5M1hYREditURBS2NJV2g5U2U0cIBqJllafJaWT0=>), [Enkh-Oyun Tsogzolbaatar](https://sciprofiles.com/profile/author/K0ZoQng0Tng2MVRqUjRnVmZWL3B2Y3BtN0VtaVk5YUILLZtdiZEFEMmJBaz0=) (<https://sciprofiles.com/profile/author/K0ZoQng0Tng2MVRqUjRnVmZWL3B2Y3BtN0VtaVk5YUILLZtdiZEFEMmJBaz0=>), [Gunchmaa Nyam](https://sciprofiles.com/profile/1944656) (<https://sciprofiles.com/profile/1944656>), [Shatar Shaarii](https://sciprofiles.com/profile/2583602) (<https://sciprofiles.com/profile/2583602>), [Pramil Singh](https://sciprofiles.com/profile/45204) (<https://sciprofiles.com/profile/45204>), [Masaharu Takahashi](https://sciprofiles.com/profile/author/UTNZNEwwMXRLdTBWwKfodDA4SHNnNHBwcGh6QW1jdEpTN2IXUWV4eWVGQT0=) (<https://sciprofiles.com/profile/author/UTNZNEwwMXRLdTBWwKfodDA4SHNnNHBwcGh6QW1jdEpTN2IXUWV4eWVGQT0=>), [Bira Namdag](https://sciprofiles.com/profile/author/Qk1ZVDZRMGIEK2tkMTBiYVlyb0g4WUJTVk54YnBHWDVbYWU4R1RIS3h0WT0=) (<https://sciprofiles.com/profile/author/Qk1ZVDZRMGIEK2tkMTBiYVlyb0g4WUJTVk54YnBHWDVbYWU4R1RIS3h0WT0=>) and [Hiroaki Okamoto](https://sciprofiles.com/profile/194364) (<https://sciprofiles.com/profile/194364>)

*Vaccines* **2022**, *10*(11), 1928; <https://doi.org/10.3390/vaccines10111928> (<https://doi.org/10.3390/vaccines10111928>) - 14 Nov 2022

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**Abstract** Hepatitis B, C, and D virus infections are a major public health problem, and Mongolia has one of the highest prevalences of dual and triple infections in the world. We aimed to determine the seroprevalence of hepatitis infection and dual or triple hepatitis [...] [Read more](#).

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### COVID-19 among Czech Dentistry Students: Higher Vaccination and Lower Prevalence Compared to General Population Counterparts ([/2076-393X/10/11/1927](https://doi.org/10.3390/vaccines10111927))

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by [Roman Schmidt](https://sciprofiles.com/profile/1416942) (<https://sciprofiles.com/profile/1416942>), [Lenka Vavrickova](https://sciprofiles.com/profile/2515401) (<https://sciprofiles.com/profile/2515401>), [Christos Micopulos](https://sciprofiles.com/profile/author/bHhZU0VBOWNkc09NaG95V3U0YmU3T2tvc3BaM1IDeFUyQi9NaFVyWUILLMD0=) (<https://sciprofiles.com/profile/author/bHhZU0VBOWNkc09NaG95V3U0YmU3T2tvc3BaM1IDeFUyQi9NaFVyWUILLMD0=>), [Jakub Suchanek](https://sciprofiles.com/profile/689737) (<https://sciprofiles.com/profile/689737>), [Nela Pilbauerova](https://sciprofiles.com/profile/1034359) (<https://sciprofiles.com/profile/1034359>), and [Vojtech Perina](https://sciprofiles.com/profile/1894853) (<https://sciprofiles.com/profile/1894853>) and [Martin Kapitan](https://sciprofiles.com/profile/1109875) (<https://sciprofiles.com/profile/1109875>)

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**Abstract** The restrictions on medical students' clinical education during the COVID-19 pandemic has affected their professional readiness and often lengthened their training. These negative impacts are often considered a necessary price as clinical education is hypothesized to be associated with a high risk of [...] [Read more.](#)

(This article belongs to the Special Issue [Dentistry and Vaccines \(/journal/vaccines/special\\_issues/4HGW6043ER\)](#))

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**The Delta and Omicron Variants of SARS-CoV-2: What We Know So Far (/2076-393X/10/11/1926)**

by [Vivek P. Chavda](#) (<https://sciprofiles.com/profile/1665236>),

[Rajashri Bezbaruah](#) (<https://sciprofiles.com/profile/author/bmxIKzFjVVhBV2R5RUM3UUZOUEJmQWlyeWRuUFJLRWZNRjBWRmWzN002Zz0=>),

[Kangkan Deka](#) (<https://sciprofiles.com/profile/author/RFFLWkJFaWx4T2dFWETc3ZhamhtZHikR0F0eEFYz2xXQ05hZW5BeFduOD0=>),

[Lawandashisha Nongrang](#) (<https://sciprofiles.com/profile/2570930>) and [Tutumoni Kalita](#) (<https://sciprofiles.com/profile/2584578>)

Vaccines 2022, 10(11), 1926; <https://doi.org/10.3390/vaccines10111926> (<https://doi.org/10.3390/vaccines10111926>) - 14 Nov 2022

Cited by 6 ([/2076-393X/10/11/1926#metrics](#)) | Viewed by 1400

**Abstract** The world has not yet completely overcome the fear of the havoc brought by SARS-CoV-2. The virus has undergone several mutations since its initial appearance in China in December 2019. Several variations (i.e., B.1.616.1 (Kappa variant), B.1.617.2 (Delta variant), B.1.617.3, and BA.2.75 (Omicron [...]) [Read more.](#)

(This article belongs to the Special Issue [SARS-CoV-2: Immunopeptidomics and Other Immunological Studies \(/journal/vaccines/special\\_issues/Immunological\\_Studies\)](#).)

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Open Access Correction

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**Correction: Karrow et al. Maternal COVID-19 Vaccination and Its Potential Impact on Fetal and Neonatal Development. Vaccines 2021, 9, 1351 (/2076-393X/10/11/1925)**

by [Niel A. Karrow](#) (<https://sciprofiles.com/profile/628188>),

[Umesh K. Shandilya](#) (<https://sciprofiles.com/profile/author/dUV1YWpsRWEvakN6UWYvRHorRWFtK1hNYzYyVWt2Zno0aWk5SzMxMDRFRT0=>),

[Steven Pelech](#) (<https://sciprofiles.com/profile/author/RIZDaHVMNXUra01STXFFWltd1rUT09>),

[Lauraine Wagter-Lesperance](#) (<https://sciprofiles.com/profile/1897706>),

[Deanna McLeod](#) (<https://sciprofiles.com/profile/author/cXJil3FJbFF4L0NjdThRaklUSFAxME9aSGFIRG42WE1MSkdJa2d4cDFHOD0=>),

[Byram Bridle](#) (<https://sciprofiles.com/profile/258281>) and [Bonnie A. Mallard](#) (<https://sciprofiles.com/profile/2428198>)

Vaccines 2022, 10(11), 1925; <https://doi.org/10.3390/vaccines10111925> (<https://doi.org/10.3390/vaccines10111925>) - 14 Nov 2022

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**Abstract** In the original publication [...] [Full article \(/2076-393X/10/11/1925\)](#)

(This article belongs to the Special Issue [Safety Concerns, Sources of Liability, Compensation Strategies and the Right to Be Informed: Ethical and Legal Issues of COVID-19 Vaccination \(/journal/vaccines/special\\_issues/Safety\\_Source\\_Compensation\\_Right\\_Ethical\\_Legal\\_COVID-19\\_Vaccination\)](#).)

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**The Four Ws of the Fourth Dose COVID-19 Vaccines: Why, Who, When and What (/2076-393X/10/11/1924)**

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by [Ka-Wa Khong](https://sciprofiles.com/profile/1996717) (<https://sciprofiles.com/profile/1996717>), [Ruiqi Zhang](https://sciprofiles.com/profile/1936732) (<https://sciprofiles.com/profile/1936732>) and [Ngai Hung](https://sciprofiles.com/profile/223689) (<https://sciprofiles.com/profile/223689>)

*Vaccines* **2022**, *10*(11), 1924; <https://doi.org/10.3390/vaccines10111924> (<https://doi.org/10.3390/vaccines10111924>) - 14 Nov 2022

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**Abstract** With the emergence of SARS-CoV-2 variants, vaccine breakthrough is a major public health concern. With evidence of reduced neutralizing antibody activity against Omicron variants and fading antibody level after the third-dose booster vaccine, there are suggestions of a fourth-dose booster vaccine. In this [...] [Read more.](#)

(This article belongs to the Special Issue [Cellular and Humoral Immunity after COVID-19 Vaccination](#) ([/journal/vaccines/special\\_issues/Cellular\\_Vaccines](#)))

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### **PROM SSCOL—Impact of a Papillomavirus Vaccination Promotion Program in Middle Schools to Raise the Vaccinal Coverage on Reunion Island** ([/2076-393X/10/11/1923](#))

by [Phuong Lien Tran](https://sciprofiles.com/profile/2533816) (<https://sciprofiles.com/profile/2533816>),

[Emmanuel Chirpaz](https://sciprofiles.com/profile/author/UIAr3JNZVICOHh5SWJ5djdMnVteFFTV5EiSDhNeTA1UIVsQ0ZvdEYrcz0=) (<https://sciprofiles.com/profile/author/UIAr3JNZVICOHh5SWJ5djdMnVteFFTV5EiSDhNeTA1UIVsQ0ZvdEYrcz0=>),

[Malik Boukerrou](https://sciprofiles.com/profile/author/dkp4ZGJFTENpSW9BZ0JGMHFtVWF6cTAvWWWQYnRpS1ZnRm1UaUtLRmJDTT0=) (<https://sciprofiles.com/profile/author/dkp4ZGJFTENpSW9BZ0JGMHFtVWF6cTAvWWWQYnRpS1ZnRm1UaUtLRmJDTT0=>) and

[Antoine Bertolotti](https://sciprofiles.com/profile/author/OEdWRHBRK29XSXhmK3BJOUZEVHpMM2RsNIFmTk1tM3M5cFFReFY5M2NCeGJ3ZW9G) (<https://sciprofiles.com/profile/author/OEdWRHBRK29XSXhmK3BJOUZEVHpMM2RsNIFmTk1tM3M5cFFReFY5M2NCeGJ3ZW9G>)

*Vaccines* **2022**, *10*(11), 1923; <https://doi.org/10.3390/vaccines10111923> (<https://doi.org/10.3390/vaccines10111923>) - 14 Nov 2022

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**Abstract** Introduction: On Reunion Island, cervical cancer is the third most common cause of cancer in women. Primary prevention is based on the HPV vaccination, yet coverage rate is low (8.1%). The objective of the study was to evaluate the impact of a health [...] [Read more.](#)

(This article belongs to the Section [Cancer Vaccines and Immunotherapy](#) ([/journal/vaccines/sections/Cancer\\_vaccines](#)))

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### **Breakthrough SARS-CoV-2 Infections after Vaccination in North Carolina** ([/2076-393X/10/11/1922](#))

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**Abstract** We characterize the overall incidence and risk factors for breakthrough infection among fully vaccinated participants in the North Carolina COVID-19 Community Research Partnership cohort. Among 15,808 eligible participants, 638 reported a positive SARS-CoV-2 test after vaccination. Factors associated with a lower risk of [...] [Read more.](#)

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**COVID-19 Mortality in Vaccinated vs. Unvaccinated Liver & Kidney Transplant Recipients: A Single-Center United States Propensity Score Matching Study on Historical Data** ([/2076-393X/10/11/1921](https://doi.org/10.3390/v10/11/1921))

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*Vaccines* **2022**, *10*(11), 1921; <https://doi.org/10.3390/vaccines10111921> (<https://doi.org/10.3390/vaccines10111921>), - 13 Nov 2022

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**Abstract** Introduction: Existing studies report variable impact of vaccination on Coronavirus Disease (COVID-19) morbidity and mortality in solid organ transplant (SOT) recipients. This study aimed to perform a propensity score matching (PSM) analysis on COVID-19 survival of vaccinated and unvaccinated SOT patients who contracted [...]. [Read more.](#)

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**Vaccination Strategies Based on Bacterial Self-Assembling Proteins as Antigen Delivery Nanoscaffolds** ([/2076-393X/10/11/1920](https://doi.org/10.3390/v10/11/1920))

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*Vaccines* **2022**, *10*(11), 1920; <https://doi.org/10.3390/vaccines10111920> (<https://doi.org/10.3390/vaccines10111920>), - 13 Nov 2022

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**Abstract** Vaccination has saved billions of human lives and has considerably reduced the economic burden associated with pandemic and endemic infectious diseases. Notwithstanding major advancements in recent decades, multitude diseases remain with no available effective vaccine. While subunit-based vaccines have shown great potential to [...]. [Read more.](#)

(This article belongs to the Special Issue [Advance in Nanoparticles as Vaccine Adjuvants](#) ([/journal/vaccines/special\\_issues/Nanoparticles\\_Vaccine](/journal/vaccines/special_issues/Nanoparticles_Vaccine)))

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**Low Uptake of the Second Dose of Human Papillomavirus Vaccine in Dar es Salaam, Tanzania** ([/2076-393X/10/11/1919](https://doi.org/10.3390/v10/11/1919))

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*Vaccines* **2022**, *10*(11), 1919; <https://doi.org/10.3390/vaccines10111919> (<https://doi.org/10.3390/vaccines10111919>), - 13 Nov 2022

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**Abstract** Cervical cancer represents the most common neoplastic pathology among women, with a high burden of morbidity and mortality globally. Tanzania is no exception. The human papillomavirus (HPV) vaccine remains the most effective intervention to address such a burden. However, the uptake of the [...]. [Read more.](#)

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**Abstract** Background: The fear of being infected with the SARS-CoV-2 has become widespread, especially among older adults. Information campaigns to promote mass vaccination against COVID-19 are a key element in controlling and preventing the spread of the COVID-19 pandemic. However, their success primarily depends [...]. [Read more.](#)

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*Vaccines* 2022, 10(11), 1917; <https://doi.org/10.3390/vaccines10111917> (<https://doi.org/10.3390/vaccines10111917>) - 13 Nov 2022  
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**Abstract** The COVID-19 pandemic has caused a health crisis worldwide; therefore, it is necessary to understand the factors related to its prognosis. In this study, we hypothesized that SARS-CoV-2-derived antigens presented by MHC class I may correlate with mortality in COVID-19 because they induce [...]. [Read more.](#)

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*Vaccines* 2022, 10(11), 1916; <https://doi.org/10.3390/vaccines10111916> (<https://doi.org/10.3390/vaccines10111916>) - 12 Nov 2022

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**Abstract** Conjugate-vaccine immunogens require three components: a carrier protein, an antigen, and a crosslinker, capable of coupling antigen to carrier protein, while preserving both T-cell responses from carrier protein and B-cell responses from antigen. We previously showed that the N-terminal eight residues of the [...]. [Read more.](#)

(This article belongs to the Special Issue [The 10th Anniversary of Vaccines—Vaccines against HIV and Other Viruses](#) ([/journal/vaccines/special\\_issues/10th\\_HIV\\_vaccines](#).)

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### **A Subtraction Genomics-Based Approach to Identify and Characterize New Drug Targets in *Bordetella pertussis*: Whooping Cough** ([/2076-393X/10/11/1915](https://doi.org/10.3390/vaccines10111915))

by [Alam Jamal](https://sciprofiles.com/profile/author/MngyVjRwM2Rza2FmTVRMT25QWDBEejhvOWphaDBHWTlaNIRuQ1ZldmY5Yz0=) (<https://sciprofiles.com/profile/author/MngyVjRwM2Rza2FmTVRMT25QWDBEejhvOWphaDBHWTlaNIRuQ1ZldmY5Yz0=>), [Sadaf Jahan](https://sciprofiles.com/profile/1754774) (<https://sciprofiles.com/profile/1754774>), [Hani Choudhry](https://sciprofiles.com/profile/361826) (<https://sciprofiles.com/profile/361826>), [Irfan A. Rather](https://sciprofiles.com/profile/372246) (<https://sciprofiles.com/profile/372246>) and [Mohammad Imran Khan](https://sciprofiles.com/profile/1057824) (<https://sciprofiles.com/profile/1057824>)  
*Vaccines* **2022**, *10*(11), 1915; <https://doi.org/10.3390/vaccines10111915> (<https://doi.org/10.3390/vaccines10111915>) - 12 Nov 2022  
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**Abstract** *Bordetella pertussis* is a Gram-negative bacterium known to cause pertussis or whooping cough. The disease affects the respiratory system and is contagious. Pertussis causes high mortality among infants aged less than one-year-old, although it can affect anyone of any age. Globally, 16 million [...] [Read more.](#)

(This article belongs to the Special Issue [Exploring the Gut Microbiota, Immunonutrition Axis in Vaccine Therapy: Probiotics for Healthy Living](#) ([/journal/vaccines/special\\_issues/Gut\\_Microbiota\\_Vaccines](/journal/vaccines/special_issues/Gut_Microbiota_Vaccines).)

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### **Effectiveness of the Booster of SARS-CoV-2 Vaccine among Japanese Adolescents: A Cohort Study** ([/2076-393X/10/11/1914](https://doi.org/10.3390/vaccines10111914))

by [Yoshika Saito](https://sciprofiles.com/profile/author/eGV1OEsRy3JldEhxT2MzVHk0ZVhMbKFOa3JpYUNGUDVLZXBldVJCbldBV3BzZkRqTERzdDU=) (<https://sciprofiles.com/profile/author/eGV1OEsRy3JldEhxT2MzVHk0ZVhMbKFOa3JpYUNGUDVLZXBldVJCbldBV3BzZkRqTERzdDU=>), [Kana Yamamoto](https://sciprofiles.com/profile/author/QVZuQTUxakdWT3RlOG50VEs1K0VDYINwcDRFckFJWDIhU2hZnK9kSHR3RT0=) (<https://sciprofiles.com/profile/author/QVZuQTUxakdWT3RlOG50VEs1K0VDYINwcDRFckFJWDIhU2hZnK9kSHR3RT0=>), [Morihiro Takita](https://sciprofiles.com/profile/1768868) (<https://sciprofiles.com/profile/1768868>), [Masahiro Kami](https://sciprofiles.com/profile/author/K0hCUWxqeGVjck1LS05aUEdoNWxGZjVMcCtRZWVmWHhONjM1a0RoUjE4az0=) (<https://sciprofiles.com/profile/author/K0hCUWxqeGVjck1LS05aUEdoNWxGZjVMcCtRZWVmWHhONjM1a0RoUjE4az0=>), [Masaharu Tsubokura](https://sciprofiles.com/profile/261482) (<https://sciprofiles.com/profile/261482>) and [Kenji Shibuya](https://sciprofiles.com/profile/author/bithU1FEekdYSkw0U1pGQXF0bzM4eXR3bnhSQmttbnFKbW1NTW1sbHp2ST0=) (<https://sciprofiles.com/profile/author/bithU1FEekdYSkw0U1pGQXF0bzM4eXR3bnhSQmttbnFKbW1NTW1sbHp2ST0=>)  
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**Abstract** Vaccination is effective in preventing COVID-19-related hospitalization among all age groups, but there is limited evidence on the effectiveness of the booster of the SARS-CoV-2 vaccine among adolescents. We analyzed the data on the status of SARS-CoV-2 infection and their vaccination profiles in [...] [Read more.](#)

(This article belongs to the Special Issue [Safety and Effectiveness of COVID-19 Vaccines on COVID-19 Infection and Its Long-Term Consequences](#) ([/journal/vaccines/special\\_issues/OE75383VTR](/journal/vaccines/special_issues/OE75383VTR).)

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### **Digital Media Exposure and Health Beliefs Influencing Influenza Vaccination Intentions: An Empirical Research in China** ([/2076-393X/10/11/1913](https://doi.org/10.3390/vaccines10111913))

by [Qingting Zhao](https://sciprofiles.com/profile/author/N3A5L0xpU1hGeFAwdTBVQk1kcmx6OXhXmUUh5eE11UUpSeENLN24xQ3VYbz0=) (<https://sciprofiles.com/profile/author/N3A5L0xpU1hGeFAwdTBVQk1kcmx6OXhXmUUh5eE11UUpSeENLN24xQ3VYbz0=>), [Hao Yin](https://sciprofiles.com/profile/author/ZzV2UEhQbHBGZFdGVkZjZmWbJlUjB3ZEeERwbUpuUmUwaXZKWGdwZUVwQT0=) (<https://sciprofiles.com/profile/author/ZzV2UEhQbHBGZFdGVkZjZmWbJlUjB3ZEeERwbUpuUmUwaXZKWGdwZUVwQT0=>) and [Difan Guo](https://sciprofiles.com/profile/1984652) (<https://sciprofiles.com/profile/1984652>)  
*Vaccines* **2022**, *10*(11), 1913; <https://doi.org/10.3390/vaccines10111913> (<https://doi.org/10.3390/vaccines10111913>) - 12 Nov 2022  
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**Abstract** The purpose of this study was to investigate whether/how digital media exposure influences people's intention to influenza vaccination. Through an anonymous online survey, we collected data on Chinese people's exposure to influenza and influenza vaccine information on digital media platforms and their attitudes [...] [Read more.](#)

(This article belongs to the Special Issue [The Willingness toward Vaccination: A Focus on Non-mandatory Vaccinations](#) ([/journal/vaccines/special\\_issues/vaccination\\_willingness](/journal/vaccines/special_issues/vaccination_willingness).)

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**Prophylactic Human Papillomavirus Vaccination: From the Origin to the Current State** (/2076-393X/10/11/1912)

by

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**Abstract** Immunization is the most successful method in preventing and controlling infectious diseases, which has helped saving millions of lives worldwide. The discovery of the human papillomavirus (HPV) infection being associated with a variety of benign conditions and cancers has driven the development of [...]

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(This article belongs to the Special Issue **HPV Vaccination: Current Situation and Future Goals** (/journal/vaccines/special\_issues/M86PDI18K9))

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**COVID-19 Breakthrough Infections in Vaccinated Kidney Transplant Recipients** (/2076-393X/10/11/1911)

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**Abstract** Coronavirus disease 2019 (COVID-19) is associated with increased morbidity and mortality among kidney transplant recipients (KTRs). The administration of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) vaccination is the only reliable strategy to prevent COVID-19 and alleviate the severity of COVID-19 in [...]. **Read more.**

(This article belongs to the Special Issue **Safety, Efficacy and Optimization of the COVID-19 Vaccines** (/journal/vaccines/special\_issues/Safety\_Vaccines))

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**COVID-19 Vaccination Rates and Factors Affecting Vaccine Hesitancy among Pregnant Women during the Pandemic Period in Turkey: A Single-Center Experience** (/2076-393X/10/11/1910)

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*Vaccines* 2022, 10(11), 1910; <https://doi.org/10.3390/vaccines10111910> (<https://doi.org/10.3390/vaccines10111910>) - 11 Nov 2022

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**Abstract** The new coronavirus disease (COVID-19), which was detected in the Wuhan region of China in 2019 and spread rapidly all over the world, was declared a pandemic by the WHO in 2020. Since then, despite widespread recommendations to prevent the spread of the [...]. [Read more.](#) (This article belongs to the Section [COVID-19 Vaccines and Vaccination](#) ([/journal/vaccines/sections/COVID-19\\_vaccines\\_vaccination](#)))



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**Low Genetic Polymorphism in the Immunogenic Sequences of *Rhipicephalus microplus* Clade C** ((2076-393X/10/11/1909))

by [Ismail Zeb](#) (<https://sciprofiles.com/profile/2010116>), [Mashal M. Almutairi](#) (<https://sciprofiles.com/profile/704200>), [Abdulaziz Alouffi](#) (<https://sciprofiles.com/profile/1214011>), [Nabila Islam](#) (<https://sciprofiles.com/profile/author/TIhGUTIORmpsOUVEb2tjVUNHR3hpRzJIY1M5WGNhQ3NaTFBKcDZyWkJKQT0=>), [Luís Fernando Parizi](#) (<https://sciprofiles.com/profile/1939200>), [Sher Zaman Safi](#) (<https://sciprofiles.com/profile/2376370>), [Tetsuya Tanaka](#) (<https://sciprofiles.com/profile/284205>), [Itabajara da Silva Vaz, Jr.](#) (<https://sciprofiles.com/profile/94121>) and [Abid Ali](#) (<https://sciprofiles.com/profile/727771>)

*Vaccines* **2022**, *10*(11), 1909; <https://doi.org/10.3390/vaccines10111909> (<https://doi.org/10.3390/vaccines10111909>) - 11 Nov 2022  
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**Abstract** *Rhipicephalus microplus* tick highly affects the veterinary sector throughout the world. Different tick control methods have been adopted, and the identification of tick-derived highly immunogenic sequences for the development of an anti-tick vaccine has emerged as a successful alternate. This study aimed to [...]. [Read more.](#)

(This article belongs to the Section [Veterinary Vaccines](#) ([/journal/vaccines/sections/Veterinary\\_Vaccines](#)))

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[./2076-393X/10/11/1908/pdf?version=1668579933](#)

**Estimating the Impact of Influenza Vaccination on Acute and ICU Hospital Bed Usage in an Influenza Season under Endemic COVID-19 in the US** ((2076-393X/10/11/1908))

by [Van Hung Nguyen](#) (<https://sciprofiles.com/profile/author/WExPOTVOZ1h3L2JsT0ZCK01zc1RVWEgzd1pGNVN5TkMrSWg4Vkn3a2tSQT0=>) and [Joaquin F. Mould-Quevedo](#) (<https://sciprofiles.com/profile/1360520>)

*Vaccines* **2022**, *10*(11), 1908; <https://doi.org/10.3390/vaccines10111908> (<https://doi.org/10.3390/vaccines10111908>) - 11 Nov 2022

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**Abstract** In 2021–2022, influenza vaccine coverage in the US dropped below pre-COVID-19 pandemic levels. Cocirculation of COVID-19 and influenza could place a substantial burden on hospital utilization in future seasons, particularly given the reduced exposure to influenza during the pandemic. We used a dynamic [...]. [Read more.](#)

(This article belongs to the Section [Influenza Virus Vaccines](#) ([/journal/vaccines/sections/Influenza\\_virus\\_vaccines](#)))

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[./2076-393X/10/11/1907/pdf?version=1668682612](#)

**Immunopeptidomic Analysis of BoLA-I and BoLA-DR Presented Peptides from *Theileria parva* Infected Cells** ((2076-393X/10/11/1907))

by [Timothy Connelley](#) (<https://sciprofiles.com/profile/2488685>), [Annalisa Nicastrì](#) (<https://sciprofiles.com/profile/author/aFFQSEBtKqYQTNQOHQ4MWdEQWZkc3ZrRIRUVGkrOUczRjBpYIRLcU5wND0=>), [Tara Sheldrake](#) (<https://sciprofiles.com/profile/author/YmhCemozWktFUGVhY1IHMIznd21pOE8vUnd1VVV5OWtqFJ2b2oyTUzsbz0=>), [Christina Vrettou](#) (<https://sciprofiles.com/profile/author/RzRDVUZ2cGJXQllwVEF5NGhMQm1BWThGU29GNi9uMmdDL25YcmhtSXVmdz0=>), [Andressa Fisch](#) (<https://sciprofiles.com/profile/2547761>), [Birkir Reynisson](#) (<https://sciprofiles.com/profile/author/bitwQUF0d21JU0V5SkxIVGiwUjNTT0o0L1FraCtQU3V2aXhHTjEYt0VoYz0=>)

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*Vaccines* **2022**, *10*(11), 1907; <https://doi.org/10.3390/vaccines10111907> (<https://doi.org/10.3390/vaccines10111907>), - 11 Nov 2022  
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**Abstract** The apicomplexan parasite *Theileria parva* is the causative agent of East Coast fever, usually a fatal disease for cattle, which is prevalent in large areas of eastern, central, and southern Africa. Protective immunity against *T. parva* is mediated by CD8<sup>+</sup> T cells, [...] [Read more](#).

(This article belongs to the Special Issue [Reverse Vaccinology and Vaccine Antigens](#) ([/journal/vaccines/special\\_issues/Reverse\\_Vaccines](#)))

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**Chitosan-Based Nanomaterial as Immune Adjuvant and Delivery Carrier for Vaccines** ([/2076-393X/10/11/1906](#))

- by [Xiaochen Gong](https://sciprofiles.com/profile/author/YUInYndrcDlxNjI4SII6UmJBS2RweThKM2VRNGV1ZTUzVkvNk0N6cjZJbz0=) (<https://sciprofiles.com/profile/author/YUInYndrcDlxNjI4SII6UmJBS2RweThKM2VRNGV1ZTUzVkvNk0N6cjZJbz0=>),
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- [Chunjing Zhang](https://sciprofiles.com/profile/2200157) (<https://sciprofiles.com/profile/2200157>) and [Kai Zhao](https://sciprofiles.com/profile/1768993) (<https://sciprofiles.com/profile/1768993>)

*Vaccines* **2022**, *10*(11), 1906; <https://doi.org/10.3390/vaccines10111906> (<https://doi.org/10.3390/vaccines10111906>), - 11 Nov 2022

**Cited by 3** ([/2076-393X/10/11/1906#metrics](#)) | Viewed by 897

**Abstract** With the support of modern biotechnology, vaccine technology continues to iterate. The safety and efficacy of vaccines are some of the most important areas of development in the field. As a natural substance, chitosan is widely used in numerous fields—such as immune stimulation, [...] [Read more](#).

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Open Access Case Report

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**Fulminant Type 1 Diabetes Mellitus after SARS-CoV-2 Vaccination: A Case Report** ([/2076-393X/10/11/1905](#))

- by [Rong Lin](https://sciprofiles.com/profile/2473241) (<https://sciprofiles.com/profile/2473241>),
- [Yu-Wei Lin](https://sciprofiles.com/profile/author/WU1aeXJsMTNwNzFUQVg1TVJzIiHaiRUQVI4ZHhjcXRScTREakJnWi9kMD0=) (<https://sciprofiles.com/profile/author/WU1aeXJsMTNwNzFUQVg1TVJzIiHaiRUQVI4ZHhjcXRScTREakJnWi9kMD0=>) and
- [Mei-Hsiu Chen](https://sciprofiles.com/profile/1671742) (<https://sciprofiles.com/profile/1671742>)

*Vaccines* **2022**, *10*(11), 1905; <https://doi.org/10.3390/vaccines10111905> (<https://doi.org/10.3390/vaccines10111905>), - 11 Nov 2022

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**Abstract** Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) vaccines have been used worldwide to control the coronavirus disease pandemic. However, several adverse effects have been reported following vaccination. Therefore, further research on the adverse effects in individuals predisposed to life-threatening conditions is needed. Herein, [...] [Read more](#).

(This article belongs to the Special Issue [Adverse Events of COVID-19 Vaccines](#) ([/journal/vaccines/special\\_issues/Adverse\\_Vaccines](#)))

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**Correlation of Binding and Neutralizing Antibodies against SARS-CoV-2 Omicron Variant in Infection-Naïve and Convalescent BNT162b2 Recipients** ([/2076-393X/10/11/1904](#))

- by [Jia Fu](https://sciprofiles.com/profile/author/TDNSSW5BbXBubHk3eFR1RE5QdnQ3Zz09) (<https://sciprofiles.com/profile/author/TDNSSW5BbXBubHk3eFR1RE5QdnQ3Zz09>),
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- [James N. Moy](https://sciprofiles.com/profile/2506985) (<https://sciprofiles.com/profile/2506985>)

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*Vaccines* **2022**, *10*(11), 1904; <https://doi.org/10.3390/vaccines10111904> (<https://doi.org/10.3390/vaccines10111904>), - 11 Nov 2022

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**Abstract** In vaccine clinical trials, both binding antibody (bAb) levels and neutralization antibody (nAb) titers have been shown to be correlates of SARS-CoV-2 vaccine efficacy. We report a strong correlation bAb and nAb responses against the SARS-CoV-2 Omicron (BA.1) variant in infection-naïve and previously [...] [Read more](#).

(This article belongs to the Special Issue [Antibody Response of Vaccines to SARS-CoV-2 \(/journal/vaccines/special\\_issues/vaccines\\_antibody\\_\)](#))

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Open Access Case Report

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**A Case Report of Monkeypox in an Adult Patient from Italy: Clinical and Dermoscopic Manifestations, Diagnosis and Management (/2076-393X/10/11/1903)**

by [Ilaria Proietti](https://sciprofiles.com/profile/1804148) (<https://sciprofiles.com/profile/1804148>), [Paolo Emilio Santoro](https://sciprofiles.com/profile/509550) (<https://sciprofiles.com/profile/509550>), [Nevena Skroza](https://sciprofiles.com/profile/1712163) (<https://sciprofiles.com/profile/1712163>), [Tiziana Tieghi](https://sciprofiles.com/profile/2487764) (<https://sciprofiles.com/profile/2487764>), [Nicoletta Bernardini](https://sciprofiles.com/profile/2487765) (<https://sciprofiles.com/profile/2487765>), [Ersilia Tolino](https://sciprofiles.com/profile/2487766) (<https://sciprofiles.com/profile/2487766>), [Agnieszka Ewa Dybala](https://sciprofiles.com/profile/2482111) (<https://sciprofiles.com/profile/2482111>), [Antonio Di Guardo](https://sciprofiles.com/profile/2487767) (<https://sciprofiles.com/profile/2487767>), [Alessandra Rallo](https://sciprofiles.com/profile/2487768) (<https://sciprofiles.com/profile/2487768>), [Marco Di Fraia](https://sciprofiles.com/profile/2568757) (<https://sciprofiles.com/profile/2568757>), [Maria Francesca Rossi](https://sciprofiles.com/profile/2003594) (<https://sciprofiles.com/profile/2003594>), [Martina Vitiello](https://sciprofiles.com/profile/2487769) (<https://sciprofiles.com/profile/2487769>), [Umberto Moscato](https://sciprofiles.com/profile/244977) (<https://sciprofiles.com/profile/244977>), [Giovanni Pellacani](https://sciprofiles.com/profile/2487771) (<https://sciprofiles.com/profile/2487771>), [Miriam Lichtner](https://sciprofiles.com/profile/961109) (<https://sciprofiles.com/profile/961109>) and [Concetta Potenza](https://sciprofiles.com/profile/2487770) (<https://sciprofiles.com/profile/2487770>)

*Vaccines* **2022**, *10*(11), 1903; <https://doi.org/10.3390/vaccines10111903> (<https://doi.org/10.3390/vaccines10111903>) - 10 Nov 2022

**Cited by 1** ([/2076-393X/10/11/1903#metrics](#)) | Viewed by 1155

**Abstract** Monkeypox infection is an emerging problem and a new challenge for modern medicine. With an increasing number of new cases worldwide, new data regarding the clinical manifestations, characteristics of the patients, risk factors and treatment options are coming to light. Knowing more about [...] [Read more](#).

(This article belongs to the Special Issue [Monkeypox Virus Infection: Analysis and Detection \(/journal/vaccines/special\\_issues/M23IYAME0H\\_\)](#))

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Open Access Review

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**Immunomodulatory Role of Thioredoxin Interacting Protein in Cancer's Impediments: Current Understanding and Therapeutic Implications (/2076-393X/10/11/1902)**

by [Ramkumar Katturajan](https://sciprofiles.com/profile/2432978) (<https://sciprofiles.com/profile/2432978>), [Sangeetha Nithyanandam](https://sciprofiles.com/profile/2491710) (<https://sciprofiles.com/profile/2491710>), [Manisha Parthasarathy](https://sciprofiles.com/profile/2559128) (<https://sciprofiles.com/profile/2559128>), [Abilash Valsala Gopalakrishnan](https://sciprofiles.com/profile/2456209) (<https://sciprofiles.com/profile/2456209>), [Ezhaveni Sathiyamoorthi](https://sciprofiles.com/profile/author/eEdBVVpoNW9ZYXBQS2o0dIRMMEZUOGpObDFPQ24zZy9aS1FCUkxJdjRudz0=) (<https://sciprofiles.com/profile/author/eEdBVVpoNW9ZYXBQS2o0dIRMMEZUOGpObDFPQ24zZy9aS1FCUkxJdjRudz0=>), [Jintae Lee](https://sciprofiles.com/profile/348788) (<https://sciprofiles.com/profile/348788>), [Thiyagarajan Ramesh](https://sciprofiles.com/profile/author/Tm5ZTG40MIMxOGVzNWY4eGJlei92WU41MGZLWl9XNGxWdXBwRHpHcjQ3az0=) (<https://sciprofiles.com/profile/author/Tm5ZTG40MIMxOGVzNWY4eGJlei92WU41MGZLWl9XNGxWdXBwRHpHcjQ3az0=>), [Mahalaxmi Iyer](https://sciprofiles.com/profile/904057) (<https://sciprofiles.com/profile/904057>), [Sabina Evan Prince](https://sciprofiles.com/profile/2821588) (<https://sciprofiles.com/profile/2821588>) and [Raja Ganesan](https://sciprofiles.com/profile/1449627) (<https://sciprofiles.com/profile/1449627>)

*Vaccines* **2022**, *10*(11), 1902; <https://doi.org/10.3390/vaccines10111902> (<https://doi.org/10.3390/vaccines10111902>) - 10 Nov 2022

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**Abstract** Cancer, which killed ten million people in 2020, is expected to become the world's leading health problem and financial burden. Despite the development of effective therapeutic approaches, cancer-related deaths have increased by 25.4% in the last ten years. Current therapies promote apoptosis and [...] [Read more](#).

(This article belongs to the Special Issue [Cancer Immunology Focus: Cellular & Molecular Immunology \(/journal/vaccines/special\\_issues/Cancer\\_Immunology\\_Focus\\_\)](#))

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**The Impact and Progression of the COVID-19 Pandemic in Bulgaria in Its First Two Years (/2076-393X/10/11/1901)**

by [Antoni Rangachev](https://sciprofiles.com/profile/2517115) (<https://sciprofiles.com/profile/2517115>), [Georgi K. Marinov](https://sciprofiles.com/profile/2517115) (<https://sciprofiles.com/profile/2517115>) and [Mladen Mladenov](https://sciprofiles.com/profile/2552934) (<https://sciprofiles.com/profile/2552934>)

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**Abstract** After initially having low levels of SARS-CoV-2 infections for much of the year, Bulgaria experienced a major epidemic surge at the end of 2020, which caused the highest recorded excess mortality in Europe, among the highest in the world (Excess Mortality Rate, or [...]) [Read more.](#)

(This article belongs to the Special Issue [SARS-CoV-2 Variants Research and Ending the COVID-19 Pandemic](#) ([/journal/vaccines/special\\_issues/SARS\\_CoV\\_2\\_vaccines.](#)))

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**Heterologous Systemic Prime–Intranasal Boosting Using a Spore SARS-CoV-2 Vaccine Confers Mucosal Immunity and Cross-Reactive Antibodies in Mice as well as Protection in Hamsters** ([/2076-393X/10/11/1900](#))

by [Paidamoyo M. Katsande](#) (<https://sciprofiles.com/profile/24011100>), [Leira Fernández-Bastit](#) (<https://sciprofiles.com/profile/1932044>), [William T. Ferreira](#) (<https://sciprofiles.com/profile/author/aE1SdWpGMzBXaml1YVFZdWVIY3UvdUgzclDHRhEUIV6M3RrQWZTazVFWT0=>), [Júlia Vergara-Alert](#) (<https://sciprofiles.com/profile/1157609>), [Mateusz Hess](#) (<https://sciprofiles.com/profile/author/MHppc21OOExy1RUQ3Y4cIIIPSGRxS2ovOExIQS95Q1YrOeJHNjIGQU44ND0=>), [Katie Lloyd-Jones](#) (<https://sciprofiles.com/profile/author/UGNqY3ZCVXpDUUQ0akVXOVfYs2ZMTjh0TXhCdIjJUG9OSFJ5VG05WUUVURT0=>), [Huynh A. Hong](#) (<https://sciprofiles.com/profile/author/VExEREpDZnN1eHhZa0ISdTEyNIN6Yml4VnJ2V0Z0UTVwZXhvZDZ5RTThsTT0=>), [Joaquim Segales](#) (<https://sciprofiles.com/profile/970142>) and [Simon M. Cutting](#) (<https://sciprofiles.com/profile/798682>).

Vaccines 2022, 10(11), 1900; <https://doi.org/10.3390/vaccines10111900> (<https://doi.org/10.3390/vaccines10111900>), - 10 Nov 2022

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**Abstract** *Background:* Current severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) vaccines are administered systemically and typically result in poor immunogenicity at the mucosa. As a result, vaccination is unable to reduce viral shedding and transmission, ultimately failing to prevent infection. One possible solution [...]) [Read more.](#)

(This article belongs to the Special Issue [COVID-19 Vaccine Candidate Development](#) ([/journal/vaccines/special\\_issues/COVID19\\_Vaccine.](#)))

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**Hesitancy toward the Full COVID-19 Vaccination among Kidney, Liver and Lung Transplant Recipients in Italy** ([/2076-393X/10/11/1899](#))

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*Vaccines* **2022**, *10*(11), 1899; <https://doi.org/10.3390/vaccines10111899> (https://doi.org/10.3390/vaccines10111899) - 10 Nov 2022

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**Abstract** Background: Coronavirus disease 2019 (COVID-19) vaccination hesitancy is a threat as COVID-19 vaccines have reduced both viral transmission and virus-associated mortality rates, particularly in high-risk subgroups. Solid organ transplant recipients (SOTRs) are particularly vulnerable, as the underlying causes of their organ failure and [...] [Read more](#).

(This article belongs to the Special Issue [Vaccine and Vaccination: On Field Research](#) (/journal/vaccines/special\_issues/Vaccine\_Italy/))

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### [Employee Participation in Workplace Vaccination Campaigns: A Systematic Review and Meta-Analysis](#) (/2076-393X/10/11/1898)


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*Vaccines* **2022**, *10*(11), 1898; <https://doi.org/10.3390/vaccines10111898> (https://doi.org/10.3390/vaccines10111898) - 10 Nov 2022

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**Abstract** To reduce vaccine-preventable diseases in workers, workplace vaccination campaigns can be implemented on-site. The aim of this systematic review was to evaluate adherence to workplace vaccination campaigns. Three databases, PubMed, ISI Web of Science, and Scopus, were screened systematically for articles in English [...] [Read more](#).

(This article belongs to the Special Issue [Vaccination Hesitancy across the Globe](#) (/journal/vaccines/special\_issues/5U27VV1U0P/))

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### [Caregiver Willingness to Vaccinate Children with Pneumococcal Vaccines and to Pay in a Low-Resource Setting in China: A Cross-Sectional Study](#) (/2076-393X/10/11/1897)

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**Abstract** To determine the vaccine hesitancy of pneumococcal conjugate vaccines (PCVs) in a low-resource setting in China and to identify associated factors, a face-to-face questionnaire survey was conducted in the city of Guilin, China, from December 2021 to March 2022, which comprised sociodemographic information, [...] [Read more](#).

(This article belongs to the Special Issue [Current Use and Development of Vaccines in China](#) (/journal/vaccines/special\_issues/China\_Vaccine/))

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

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### [Early Real-World Data to Assess Benefits and Risks of COVID-19 Vaccines: A Systematic Review of Methods](#) (/2076-393X/10/11/1896)

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Vaccines 2022, 10(11), 1896; <https://doi.org/10.3390/vaccines10111896> (<https://doi.org/10.3390/vaccines10111896>) - 10 Nov 2022

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**Abstract** Since the authorization of the first COVID-19 vaccines in December 2020, multiple studies using real-world data (RWD) have been published to assess their effectiveness/safety profile. This systematic review aimed to characterize the methods and outcomes of studies using RWD for assessment of COVID-19 [...]. [Read more.](#)

(This article belongs to the Special Issue [Research in Vaccine Epidemiology: Immunogenicity, Effectiveness, and Safety](#) ([/journal/vaccines/special\\_issues/Vaccine\\_Epidemiology.](#)))




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### Monoclonal Antibodies against SARS-CoV-2 Infection: Results from a Real-Life Study before the Omicron Surge ([/2076-393X/10/11/1895](#))

by  Riccardo Scotto (<https://sciprofiles.com/profile/2456153>),  Antonio Riccardo Buonomo (<https://sciprofiles.com/profile/2626237>),  Giulia Zumbo (<https://sciprofiles.com/profile/author/YVE3UnZrVkf0a2p5RzJ2bHp0UER5VHZka2lqNIQ5RIppdGRXaVF4eU42cz0=>),  Antonio Di Fusco (<https://sciprofiles.com/profile/author/Y1FqBU9tVVJzYVZQc0R4S0hVMkRaQVlvWGN6T1JidnprMXVkrIVNN0pBTT0=>),  Nunzia Esposito (<https://sciprofiles.com/profile/author/dm51NidLL0FmdFJxTEEyeFZOTDdXbXfXOGwzaitSNG92M3dBeXIYcGI0eGIQcngyMFd2aU>)

 Isabella Di Filippo (<https://sciprofiles.com/profile/author/QWMzeGIEc0txZW4zb1VCWEN6N0IFZEZ1WG5wd0tqb291Z09SaVA1Uk1lc0=>),

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 Nicola Schiano Moriello (<https://sciprofiles.com/profile/author/WGN1YWd5eGJBL1NPcUFPeW1KeFIOcFZYVDYrbXIJV3RtYk9JNEVLLzFqVT0=>),

 Riccardo Villari (<https://sciprofiles.com/profile/author/cHdJZxc2b09kckc3TENU0pEdWQzN3lMeFpFczRIM3htbXp2K0RwL2FvUt0=>),

 Ivan Gentile (<https://sciprofiles.com/profile/1104366>) and [Federico II COVID Team](#) (<https://search?authors=Federico%20II%20COVID%20Team&orcid=>)

Vaccines 2022, 10(11), 1895; <https://doi.org/10.3390/vaccines10111895> (<https://doi.org/10.3390/vaccines10111895>) - 10 Nov 2022

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**Abstract** Despite the lightning-fast advances in the management of SARS-CoV after 2 years of pandemic, COVID-19 continues to pose a challenge for fragile patients, who could benefit from early administration of monoclonal antibodies (mAbs) to reduce the risk of severe disease progression. We conducted [...]

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### Overcoming Aging-Associated Poor Influenza Vaccine Responses with CpG 1018 Adjuvant ([/2076-393X/10/11/1894](#))

by  Xinliang Kang (<https://sciprofiles.com/profile/author/VkIKY2NjUzdKa3dPRVN6cGE1V0RuWXNwRHdCNHZSR0F2SzE4bVpsb292cz0=>),

 Yibo Li (<https://sciprofiles.com/profile/1883763>),  Yiwen Zhao (<https://sciprofiles.com/profile/1931243>) and

 Xinyuan Chen (<https://sciprofiles.com/profile/773774>)

Vaccines 2022, 10(11), 1894; <https://doi.org/10.3390/vaccines10111894> (<https://doi.org/10.3390/vaccines10111894>) - 10 Nov 2022

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**Abstract** Aging is associated with diminished immune system function, which renders old people vulnerable to influenza infection and also less responsive to influenza vaccination. This study explored whether the CpG 1018 adjuvant was effective in enhancing influenza vaccine efficacy in aged mice equivalent to [...]

[Read more.](#)

(This article belongs to the Special Issue [Vaccines and Vaccine Adjuvants for Infectious Diseases and Autoimmune Diseases](#) ([/journal/vaccines/special\\_issues/TVMBV4DS6H.](#)))

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### Vaccine Champions Training Program: Empowering Community Leaders to Advocate for COVID-19 Vaccines ([/2076-393X/10/11/1893](#)) [Back to Top](#)

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[Kylie Jenkins](https://sciprofiles.com/profile/author/ZXcrL2IMMDRjQ092cGFaTGh5SzLa0wwTE1DajN4UWdkU2UzQ0lwOStpQT0=) (<https://sciprofiles.com/profile/author/ZXcrL2IMMDRjQ092cGFaTGh5SzLa0wwTE1DajN4UWdkU2UzQ0lwOStpQT0=>), and  
[Margie Danchin](https://sciprofiles.com/profile/928232) (<https://sciprofiles.com/profile/928232>)

*Vaccines* 2022, 10(11), 1893; <https://doi.org/10.3390/vaccines10111893> (<https://doi.org/10.3390/vaccines10111893>), - 09 Nov 2022  
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**Abstract** Strong community engagement has been critical to support COVID-19 vaccine uptake in Australia and elsewhere. Community engagement builds trust, enables tailored information dissemination and shapes social norms. Engagement is particularly important in communities with greater vaccine hesitancy, lower health literacy and mistrust in [...] [Read more.](#)

(This article belongs to the Special Issue [Recent Advances in Factors Associated with Vaccine Hesitancy and Acceptance](#) ([/journal/vaccines/special\\_issues/4H64ERB803](#)))

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***Mycobacterium tuberculosis*: Implications of Ageing on Infection and Maintaining Protection in the Elderly** ([/2076-393X/10/11/1892](#))

by [Victor Bonavida](https://sciprofiles.com/profile/2570439) (<https://sciprofiles.com/profile/2570439>), [Mitchell Frame](https://sciprofiles.com/profile/2442185) (<https://sciprofiles.com/profile/2442185>),  
[Kevin H. Nguyen](https://sciprofiles.com/profile/author/MXkybTVxdkxVb3FKakVobzQ1Z1IGL0VhallvTTdiUFB4U2JN29wa3I4cz0=) (<https://sciprofiles.com/profile/author/MXkybTVxdkxVb3FKakVobzQ1Z1IGL0VhallvTTdiUFB4U2JN29wa3I4cz0=>),  
[Shlok Rajurkar](https://sciprofiles.com/profile/2400889) (<https://sciprofiles.com/profile/2400889>) and [Vishwanath Venketaraman](https://sciprofiles.com/profile/60764) (<https://sciprofiles.com/profile/60764>)

*Vaccines* 2022, 10(11), 1892; <https://doi.org/10.3390/vaccines10111892> (<https://doi.org/10.3390/vaccines10111892>), - 09 Nov 2022

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**Abstract** Several reports have suggested that ageing negatively affects the human body resulting in the alteration of various parameters important for sufficient immune health. Although, the breakdown of innate and adaptive immunity has been hypothesized to increase an individual's susceptibility to infections including *Mycobacterium* [...] [Read more.](#)

(This article belongs to the Special Issue [Novel Discoveries in the Development of Vaccines against Mycobacterial Infections](#) ([/journal/vaccines/special\\_issues/2U00X2E1G5](#)))

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**Immunoprotection Efficacy of Con A-Purified Proteins against *Haemonchus contortus* in Goats** ([/2076-393X/10/11/1891](#))

by [Lisha Ye](https://sciprofiles.com/profile/author/dmtGRUpOUI5YnZ4NIRkblmclzIEYUw4dIVaQUUvL3o1QWV5eG94TVJ5ST0=) (<https://sciprofiles.com/profile/author/dmtGRUpOUI5YnZ4NIRkblmclzIEYUw4dIVaQUUvL3o1QWV5eG94TVJ5ST0=>),  
[Yao Zhang](https://sciprofiles.com/profile/author/bDhPdnphbzVhZTNuQ1NCbXdxjOVAXVGVFRmM5dEpWL092VWQ5eWNxREJYVz0=) (<https://sciprofiles.com/profile/author/bDhPdnphbzVhZTNuQ1NCbXdxjOVAXVGVFRmM5dEpWL092VWQ5eWNxREJYVz0=>),  
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[Zhiheng Wang](https://sciprofiles.com/profile/author/WUVZcmx6QmpKSk5BT1pFVXN6dIJ5U1lsZWJMNjBPT2N5R2FsK2VQejZPUT0=) (<https://sciprofiles.com/profile/author/WUVZcmx6QmpKSk5BT1pFVXN6dIJ5U1lsZWJMNjBPT2N5R2FsK2VQejZPUT0=>),  
[Feng Liu](https://sciprofiles.com/profile/author/OXljdXG0czlsbENZSnA4MUk3UkdLYjVCOWVY0XY0VHZrZjkrM2lZWkhvRT0=) (<https://sciprofiles.com/profile/author/OXljdXG0czlsbENZSnA4MUk3UkdLYjVCOWVY0XY0VHZrZjkrM2lZWkhvRT0=>),  
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*Vaccines* 2022, 10(11), 1891; <https://doi.org/10.3390/vaccines10111891> (<https://doi.org/10.3390/vaccines10111891>), - 09 Nov 2022

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**Abstract** Parasitic nematodes are important pathogens that infect animals, causing significant economic losses globally. Current repeated treatments have led to widespread anthelmintic resistance in nematode populations, so vaccine development offers an alternative control approach. However, only one effective vaccine (named Barbevax) has been developed [...] [Read more.](#)

(This article belongs to the Special Issue [Vaccine Development for Parasitic Disease](#) ([/journal/vaccines/special\\_issues/parasitic\\_vaccine](#)))




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**Serum Metabolic Correlates of the Antibody Response in Subjects Receiving the Inactivated COVID-19 Vaccine** ([/2076-393X/10/11/1890](https://doi.org/10.3390/v10/11/1890))by  **Zhang** (<https://sciprofiles.com/profile/2507880>), **Qiaoyan Yue** (<https://sciprofiles.com/profile/author/SzRbaVhnZW1MVzd6YzBWMVQvWTI2UWVjOHNoD2JhT2tHOXZkSFh2aHpiUT0=>), **Haojing Zhu** (<https://sciprofiles.com/profile/author/TFNSY1VKQ1ZtY1F2N0phdU0YXh6YnhsWXRCmkZ5MGpra1g5SytIQVJ6ND0=>), **Jieyu Song** (<https://sciprofiles.com/profile/author/VEF6R3FFenhWMEgzSzBY2FmYUpFQT09>), **Dingding Li** (<https://sciprofiles.com/profile/author/enNCbXM0Sm9yS0VLZmd6anMrNTV2dFFVvnp6T3ZveINtR0NjOS85MHBByND0=>), **Wen Liu** (<https://sciprofiles.com/profile/author/U1BEVJhODgwMkInVmdIOER5WHVORm43NWI2M1Z3NysZjZvVGNMbzIPaz0=>), **Shujun Jiang** (<https://sciprofiles.com/profile/author/OXZjeWdFK3B0c2EvS3UxMTIISno4Ymp4ZStPVjZ4cXlyMkFuWXIVZm5jRT0=>), **Ning Jiang** (<https://sciprofiles.com/profile/author/KzQ2dHJRNE9QOWJRUItFVkhwdGovMzJHSEIFL1BFaSs5TmZLWkxJaysvOD0=>), **Chao Qiu** (<https://sciprofiles.com/profile/2513355>),  **Jingwen Ai** (<https://sciprofiles.com/profile/2513356>), **Yanliang Zhang** (<https://sciprofiles.com/profile/2513357>) and **Wenhong Zhang** (<https://sciprofiles.com/profile/author/Rnk4T2dMRmhobno1bWUyOHZ0L08wSU9nZk9VVEQ2Y1FLdHM3VnN4NWJmZz0=>),*Vaccines* **2022**, *10*(11), 1890; <https://doi.org/10.3390/vaccines10111890> (<https://doi.org/10.3390/vaccines10111890>) - 09 Nov 2022





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**Abstract** Background: Metabolites are involved in biological process that govern the immune response to infection and vaccination. Knowledge of how metabolites interact with the immune system during immunization with the COVID-19 vaccine is limited. Here, we report that the serum metabolites are correlated with [...]. [Read more.](#)

(This article belongs to the Special Issue [Development and Challenges of Respiratory Disease Vaccines](#) ([/journal/vaccines/special\\_issues/8RYA9DKX8V](#)))

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**Abstract** Background: Neuro-ophthalmic manifestations after vaccines are rare, with optic neuritis (ON) being the most common presentation. Patients with vaccine-related ON are similar to those with idiopathic ON. The temporal relationship between vaccination against and the occurrence of ON is vital. Here, we report [...]. [Read more.](#)








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**Abstract** We report an unusual case of nephrotic syndrome and multiple venous thromboembolism (VTE) four days after BNT162b2 injection. The patient presented with a three-day history of foamy urine and one-day history of right leg swelling. The investigation showed 9.5 g of 24 hr [...]. [Read more.](#)

(This article belongs to the Section [COVID-19 Vaccines and Vaccination](#) ([/journal/vaccines/sections/COVID-19\\_vaccines\\_vaccination](#)))

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**Urological Safety and COVID-19 Vaccinations** ([/2076-393X/10/11/1887](https://doi.org/10.3390/vaccines10111887))

by  [Gazario Foschi](https://sciprofiles.com/profile/1473561) (<https://sciprofiles.com/profile/1473561>),  [Paolo Emilio Santoro](https://sciprofiles.com/profile/509550) (<https://sciprofiles.com/profile/509550>),  
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 [Carlotta Amantea](https://sciprofiles.com/profile/2015486) (<https://sciprofiles.com/profile/2015486>),  [Pierluigi Russo](https://sciprofiles.com/profile/2751567) (<https://sciprofiles.com/profile/2751567>) and  
 [Umberto Moscato](https://sciprofiles.com/profile/244977) (<https://sciprofiles.com/profile/244977>)

*Vaccines* **2022**, *10*(11), 1887; <https://doi.org/10.3390/vaccines10111887> (<https://doi.org/10.3390/vaccines10111887>) - 08 Nov 2022

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**Abstract** Objective: To discuss the impact of COVID-19 vaccines on the urological field and to review the available data in the literature. Material and Methods: All the related reports and original articles discussing COVID-19 vaccines and their impact on the urological field were searched [...] **Read more.**

(This article belongs to the Special Issue [Challenges and Future Trends of COVID-19 Vaccination](https://journal.vaccines/special_issues/covid_vaccination) ([/journal/vaccines/special\\_issues/covid\\_vaccination](https://journal.vaccines/special_issues/covid_vaccination)))

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**Computational Design of a Chimeric Vaccine against *Plesiomonas shigelloides* Using Pan-Genome and Reverse Vaccinology** ([/2076-393X/10/11/1886](https://doi.org/10.3390/vaccines10111886))

by  [Mahnoor Mushtaq](https://sciprofiles.com/profile/author/Ri9yRGJKYnhIYA4dlpaa2tKeVI5RGrQXJtSFV3NTBpL2t6b0dIS0k5MD0=) (<https://sciprofiles.com/profile/author/Ri9yRGJKYnhIYA4dlpaa2tKeVI5RGrQXJtSFV3NTBpL2t6b0dIS0k5MD0=>),  
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*Vaccines* **2022**, *10*(11), 1886; <https://doi.org/10.3390/vaccines10111886> (<https://doi.org/10.3390/vaccines10111886>) - 08 Nov 2022

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**Abstract** The swift emergence of antibiotic resistance (AR) in bacterial pathogens to make themselves adaptable to changing environments has become an alarming health issue. To prevent AR infection, many ways can be accomplished such as by decreasing the misuse of antibiotics in human and [...] **Read more.**

(This article belongs to the Section [Vaccine Adjuvants](https://journal.vaccines/sections/vaccine_adjuvants) ([/journal/vaccines/sections/vaccine\\_adjuvants](https://journal.vaccines/sections/vaccine_adjuvants)))

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**Who Is at Higher Risk of SARS-CoV-2 Reinfection? Results from a Northern Region of Italy** ([/2076-393X/10/11/1885](https://doi.org/10.3390/vaccines10111885))

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*Vaccines* 2022, 10(11), 1885; <https://doi.org/10.3390/vaccines10111885> (<https://doi.org/10.3390/vaccines10111885>) - 08 Nov 2022  
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**Abstract** The SARS-CoV-2 pandemic continues to spread worldwide, generating a high impact on healthcare systems. The aim of the study was to examine the epidemiological burden of SARS-CoV-2 reinfections and to identify potential related risk factors. A retrospective observational study was conducted in Liguria [...]. [Read more.](#)

(This article belongs to the Special Issue [COVID-19 Vaccination with Public Health Perspective: Prevention and Control Strategies](#) ([/journal/vaccines/special\\_issues/JY6U2A0698](/journal/vaccines/special_issues/JY6U2A0698).)

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**Subcutaneous Immunization with Unaltered Axenic Malaria Parasite Liver Stages Induces Sterile Protection against Infectious Sporozoite Challenge** ([/2076-393X/10/11/1884](https://doi.org/10.3390/vaccines10111884)).

by  Mohd Kamil (<https://sciprofiles.com/profile/author/QjZjcEZZYU1ycFRXWVdRNlg0QWpmbTdrNE9LV3N5UGVnak5ZT09Pd05NZz0=>),  
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and

 Ahmed S. I. Aly (<https://sciprofiles.com/profile/1969788>).

*Vaccines* 2022, 10(11), 1884; <https://doi.org/10.3390/vaccines10111884> (<https://doi.org/10.3390/vaccines10111884>) - 08 Nov 2022

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**Abstract** Host cell-free, axenic development of liver stages (LS) of the malaria parasite has been demonstrated. Here we explored axenic liver stages as a novel live whole parasite malaria vaccine platform, which is unaltered and not prone to human-error, compared to the immunization with [...]. [Read more.](#)

(This article belongs to the Special Issue [Development of Attenuated Vaccine](#) ([/journal/vaccines/special\\_issues/DAV\\_vaccines](/journal/vaccines/special_issues/DAV_vaccines).)




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**How Motives Related to Benefits for Oneself and Others Would Affect COVID-19 Vaccination in a Hong Kong Chinese General Adult Population?** ([/2076-393X/10/11/1883](https://doi.org/10.3390/vaccines10111883)).

by  Yanqiu Yu (<https://sciprofiles.com/profile/author/TFpQWml6bHFYSVRIUKVuUdhPYm5wVHNyc0InV01kaUN3aGhOOHBKUih9HYz0=>),  
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 Joseph T. F. Lau (<https://sciprofiles.com/profile/624402>)

*Vaccines* 2022, 10(11), 1883; <https://doi.org/10.3390/vaccines10111883> (<https://doi.org/10.3390/vaccines10111883>) - 08 Nov 2022

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**Abstract** Outcome expectancies involving self-directed and others-directed domains are potential determinants of completed or scheduled first-dose COVID-19 vaccination (CSFCV). This study investigated factors of CSFCV, including (a) self-directed motives [personal positive outcome expectancies (POE) and personal negative outcome expectancy (NOE)], and (b) others-directed motives [...]. [Read more.](#)

(This article belongs to the Special Issue [Public Psychobehavioral Responses towards Vaccination](#) ([/journal/vaccines/special\\_issues/vaccin\\_hesitancy](/journal/vaccines/special_issues/vaccin_hesitancy).)





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**Adjuvant Treatment for Breast Cancer Patients Using Individualized Neoantigen Peptide Vaccination—A Retrospective Observation** ([/2076-393X/10/11/1882](https://doi.org/10.3390/vaccines10111882)).

by  Henning Zelba (<https://sciprofiles.com/profile/2351724>),  
 Wes McCleskey (<https://sciprofiles.com/profile/author/MEYpNtprQ3h6SkU3enJBSnF4Y0JVRFN1V2QzemRzYTVsZjc0cVdFQ1FaZz0=>),  
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**Abstract** Breast cancer is a tumor entity that is one of the leading causes of mortality among women worldwide. Although numerous treatment options are available, current explorations of personalized vaccines have shown potential as promising new treatment options to prevent the recurrence of cancer. [...]

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(This article belongs to the Section [Cancer Vaccines and Immunotherapy](#) ([/journal/vaccines/sections/Cancer\\_vaccines](#)))

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### **How MALDI-TOF Mass Spectrometry Technology Contributes to Microbial Infection Control in Healthcare Settings** ([/2076-393X/10/11/1881](#))

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*Vaccines* 2022, 10(11), 1881; <https://doi.org/10.3390/vaccines10111881> (<https://doi.org/10.3390/vaccines10111881>), - 08 Nov 2022

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**Abstract** Healthcare settings have been utilizing matrix-assisted laser desorption ionization time-of-flight mass spectrometry (MALDI-TOF MS) since 2010. MALDI-TOF MS has various benefits over the conventional method of biochemical identification, including ease of use, speed, accuracy, and low cost. This approach can solve many of [...]

(This article belongs to the Topic [Advances in Human Pathogen Control – A 21st Century Challenge](#) ([/topics/pathogen\\_challenge](#)))

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Open Access Systematic Review

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### **Effectiveness of the BNT162b2 (Pfizer-BioNTech) Vaccine in Children and Adolescents: A Systematic Review and Meta-Analysis** ([/2076-393X/10/11/1880](#))

- by [Jewel Maria Sabu](https://sciprofiles.com/profile/author/Wk90ZFZ3WU9rR0xrWWUrTzBaNnV4Z3pZZmZFT0RqekVIOFVSMk9jaHkvZz0=) (<https://sciprofiles.com/profile/author/Wk90ZFZ3WU9rR0xrWWUrTzBaNnV4Z3pZZmZFT0RqekVIOFVSMk9jaHkvZz0=>),
- [Izza Zahid](https://sciprofiles.com/profile/author/MG9FMHBrSVRTdzdvQ21BK3RtaXNnaG0wRUh2WDAwZ1FQOVZ1d0IIZkVXQT0=) (<https://sciprofiles.com/profile/author/MG9FMHBrSVRTdzdvQ21BK3RtaXNnaG0wRUh2WDAwZ1FQOVZ1d0IIZkVXQT0=>),
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- [Bunmi S. Malau-Aduli](https://sciprofiles.com/profile/909410) (<https://sciprofiles.com/profile/909410>).

*Vaccines* 2022, 10(11), 1880; <https://doi.org/10.3390/vaccines10111880> (<https://doi.org/10.3390/vaccines10111880>), - 07 Nov 2022

**Cited by 3** ([/2076-393X/10/11/1880#metrics](#)) | Viewed by 1603

**Abstract** Research on about our cookies here ([about privacy](#)) We expanded to the vaccination of children and adolescents. This systematic review assesses the utility of the BNT162b2 (Pfizer-BioNTech) vaccine in children and adolescents aged 5–18 years, considering its effectiveness against COVID infection, hospital and intensive care [...]

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Open Access Review

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**COVID-19 Vaccine-Associated Ocular Adverse Effects: An Overview** ([/2076-393X/10/11/1879](#))

by [Parul Ichhpujani](#) (<https://sciprofiles.com/profile/2354569>), [Uday Pratap Singh Parmar](#) (<https://sciprofiles.com/profile/2476574>), [Siddharth Duggal](#) (<https://sciprofiles.com/profile/2557004>) and [Suresh Kumar](#) (<https://sciprofiles.com/profile/author/T1Z2VVITNVNoUXRsTTRrS2tOMUVKLzJOT1VWVY3RqYU5LTENXVVJxN3dtZz0=>)  
*Vaccines* **2022**, *10*(11), 1879; <https://doi.org/10.3390/vaccines10111879> (<https://doi.org/10.3390/vaccines10111879>) - 07 Nov 2022  
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**Abstract** Background: To address the pandemic caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), vaccination efforts were initiated across the globe in December 2020 and are continuing. We report the onset interval and clinical presentations of ocular adverse effects following SARS-CoV-2 vaccination. Methods: [...] [Read more](#).

(This article belongs to the Special Issue [Ophthalmic Adverse Events following SARS-CoV-2 Vaccination](#) ([/journal/vaccines/special\\_issues/QG1CJD5EZP](#)))

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**BNT162b2 (Pfizer/BioNTech) COVID-19 Vaccination Was Not Associated with the Progression of Activity of the Exudative Form of Age-Related Macular Degeneration during Anti-VEGF Therapy** ([/2076-393X/10/11/1878](#))

by [Bernadetta Piatkowska-Adamska](#) (<https://sciprofiles.com/profile/2283934>), [Agnieszka Bociek](#) (<https://sciprofiles.com/profile/2563524>), [Joanna Krupińska](#) (<https://sciprofiles.com/profile/author/R3RrTDhqbGhOSm1kSDI5RU5IRXh0R3BPcDdzSHILRi82a1UrZFZCQzcbz0=>), [Magdalena Kal](#) (<https://sciprofiles.com/profile/author/ZWFPRUk4eXB6a2FjNWNncVbtZ0hEbi8yTnpVS0ZTU1Z3ZjJxQUhnRG1yUT0=>), [Michał Biskup](#) (<https://sciprofiles.com/profile/author/LztZnpkaU0yZ2VHU1V0NzFPYzkwM3IIMXZQS3zczGxtTUFTOFrXYkFZTT0=>), [Dorota Zarebska-Michaluk](#) (<https://sciprofiles.com/profile/1214776>) and [Dominik Odrobina](#) (<https://sciprofiles.com/profile/2530469>)  
*Vaccines* **2022**, *10*(11), 1878; <https://doi.org/10.3390/vaccines10111878> (<https://doi.org/10.3390/vaccines10111878>) - 07 Nov 2022  
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**Abstract** Background: Evaluation of the activity of the exudative form of age-related macular degeneration (AMD) during anti-vascular endothelial growth factor (anti-VEGF) therapy before and after administration of BNT162b2 (Pfizer/BioNTech) vaccination. Methods: The optical coherence tomography and best corrected visual acuity (BCVA) records of the [...] [Read more](#).

(This article belongs to the Section [COVID-19 Vaccines and Vaccination](#) ([/journal/vaccines/sections/COVID-19\\_vaccines\\_vaccination](#)))

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**Limited T-Cell-Stimulating Effect of Cytochalasin-B-Induced Membrane Vesicles Isolated from Artificial Antigen-Presenting Cells** ([/2076-393X/10/11/1877](#))

by [Yeongwon Kim](#) (<https://sciprofiles.com/profile/2556452>), [Sueon Kim](#) (<https://sciprofiles.com/profile/2493317>), [Cheol-Hwa Hong](#) (<https://sciprofiles.com/profile/author/RIBoWFJ4NzVjTzA3dGg2NjJIUXNMRHizNTdqTGZ2bVY0SWx2K1ICMitYWT0=>), [You-Seok Hyun](#) (<https://sciprofiles.com/profile/2513203>), [In-Cheol Baek](#) (<https://sciprofiles.com/profile/1121769>) and [Tai-Gyu Kim](#) (<https://sciprofiles.com/profile/1121671>)  
*Vaccines* **2022**, *10*(11), 1877; <https://doi.org/10.3390/vaccines10111877> (<https://doi.org/10.3390/vaccines10111877>) - 07 Nov 2022  
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**Abstract** Artificial antigen-presenting cells (aAPCs) that stably express particular HLA and co-stimulatory molecules by gene transfer have been developed to effectively stimulate T cells. To investigate whether cytochalasin-B-induced membrane vesicles derived from aAPCs (AP-CIMVs) have similar antigen-presenting functions as a cell-free system, T cell [...] [Read more](#).






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## A Social Cognitive Theory Approach to Understanding Parental Attitudes and Intentions to Vaccinate Children during the COVID-19 Pandemic ([/2076-393X/10/11/1876](https://doi.org/10.3390/vaccines10111876))

by  [Ying Zhu](https://sciprofiles.com/profile/2502354) (<https://sciprofiles.com/profile/2502354>),  [Michael Beam](https://sciprofiles.com/profile/2502481) (<https://sciprofiles.com/profile/2502481>),  [Yue Ming](https://sciprofiles.com/profile/2444898) (<https://sciprofiles.com/profile/2444898>),  [Nichole Egbert](https://sciprofiles.com/profile/244415) (<https://sciprofiles.com/profile/244415>) and  [Tara C. Smith](https://sciprofiles.com/profile/684211) (<https://sciprofiles.com/profile/684211>)




*Vaccines* **2022**, *10*(11), 1876; <https://doi.org/10.3390/vaccines10111876> (<https://doi.org/10.3390/vaccines10111876>) - 07 Nov 2022

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**Abstract** The distribution of the COVID-19 vaccine represents a path towards global health after a worldwide pandemic. Yet, the U.S. response to the vaccination rollout has been politically polarized. The aim of this paper is to contribute to the understanding of the contextual factors [...] [Read more.](#)

(This article belongs to the Special Issue [COVID-19 Vaccine Acceptance and Uptake: Insights from Behavioural and Social Sciences](#) ([/journal/vaccines/special\\_issues/Vaccine\\_Acceptance](https://journal.vaccines/special_issues/Vaccine_Acceptance)))

## Dual RNA-Seq Analysis Reveals Transcriptome Effects during the Salmon–Louse Interaction in Fish Immunized with Three Lice Vaccines ([/2076-393X/10/11/1875](https://doi.org/10.3390/vaccines10111875))

by  [Antonio Casuso](https://sciprofiles.com/profile/2256346) (<https://sciprofiles.com/profile/2256346>),  [Valentina Valenzuela-Muñoz](https://sciprofiles.com/profile/1838222) (<https://sciprofiles.com/profile/1838222>) and  [Cristian Gallardo-Escárate](https://sciprofiles.com/profile/30232) (<https://sciprofiles.com/profile/30232>)

*Vaccines* **2022**, *10*(11), 1875; <https://doi.org/10.3390/vaccines10111875> (<https://doi.org/10.3390/vaccines10111875>) - 07 Nov 2022

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**Abstract** Due to the reduced efficacy of delousing drugs used for sea lice control in salmon aquaculture, fish vaccines have emerged as one of the most sustainable strategies in animal health. Herein, the availability of *C. rogercresseyi* and *Salmo salar* genomes increases the capability [...] [Read more.](#)

(This article belongs to the Special Issue [The 2nd Edition: Vaccines for Aquaculture](#) ([/journal/vaccines/special\\_issues/2nd\\_Aquaculture](https://journal.vaccines/special_issues/2nd_Aquaculture)))

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## Codon Usage and Context Analysis of Genes Modulated during SARS-CoV-2 Infection and Dental Inflammation ([/2076-393X/10/11/1874](https://doi.org/10.3390/vaccines10111874))

by  [Rekha Khandia](https://sciprofiles.com/profile/1558310) (<https://sciprofiles.com/profile/1558310>),  [Megha Katara Pandey](https://sciprofiles.com/profile/author/VzZHT2RPSW56RIJwTVRZYUNjRFBECWRMz2xtV1JpTW9aNkV2a29HOHRzdz0=) (<https://sciprofiles.com/profile/author/VzZHT2RPSW56RIJwTVRZYUNjRFBECWRMz2xtV1JpTW9aNkV2a29HOHRzdz0=>),  [Azmat Ali Khan](https://sciprofiles.com/profile/58838) (<https://sciprofiles.com/profile/58838>),  [Igor Vladimirovich Rzhepakovsky](https://sciprofiles.com/profile/977944) (<https://sciprofiles.com/profile/977944>),  [Pankaj Gurjar](https://sciprofiles.com/profile/author/YStXOWNrMEM4ank4dHRpZU0vdzJGcm5BMW0yRGEzSTRiWEFmWtrV0RxD0=) (<https://sciprofiles.com/profile/author/YStXOWNrMEM4ank4dHRpZU0vdzJGcm5BMW0yRGEzSTRiWEFmWtrV0RxD0=>) and  [Mohmed Isaqali Karobari](https://sciprofiles.com/profile/1024355) (<https://sciprofiles.com/profile/1024355>)

*Vaccines* **2022**, *10*(11), 1874; <https://doi.org/10.3390/vaccines10111874> (<https://doi.org/10.3390/vaccines10111874>) - 06 Nov 2022

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**Abstract** The overexpression of SARS-CoV-2 primary receptors and co-receptors (*ACE2*, *TMPRSS2*, *FURIN*, and *CD147*) enhance the likeliness of SARS-CoV-2 infection. The genes for same receptors are overexpressed in the periodontal tissues of periodontitis patients. On the other hand, *BMAL1* [...] [Read more.](#)

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### The Epidemiology of Influenza and the Associated Vaccines Development in China: A Review (/2076-393X/10/11/1873)

by [Jiayou Zhang](https://sciprofiles.com/profile/author/aGdkQ2Q1aHdXYnR1QWdESHpTVjKxUT09) (<https://sciprofiles.com/profile/author/aGdkQ2Q1aHdXYnR1QWdESHpTVjKxUT09>),  
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[Xuedan Li](https://sciprofiles.com/profile/2841067) (<https://sciprofiles.com/profile/2841067>),  
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[Xinguo Li](https://sciprofiles.com/profile/author/Mk9ZOUZqUVFxaIIYVEh4dmhFekJ2VExTRTJxOHJ3TzZEblcxZjZHYjV2UT0=) (<https://sciprofiles.com/profile/author/Mk9ZOUZqUVFxaIIYVEh4dmhFekJ2VExTRTJxOHJ3TzZEblcxZjZHYjV2UT0=>) and  
[Xiaoming Yang](https://sciprofiles.com/profile/2059630) (<https://sciprofiles.com/profile/2059630>)

*Vaccines* **2022**, *10*(11), 1873; <https://doi.org/10.3390/vaccines10111873> (<https://doi.org/10.3390/vaccines10111873>) - 06 Nov 2022



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**Abstract** Influenza prevention and control has been one of the biggest challenges encountered in the public health domain. The vaccination against influenza plays a pivotal role in the prevention of influenza, particularly for the elderly and small children. According to the epidemiology of influenza [...] [Read more](#). (This article belongs to the Special Issue [Vaccines against Influenza Virus](#) ([/journal/vaccines/special\\_issues/virus\\_vaccine](#)))

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### Preventive Measures for SARS-CoV-2 in the Workplace and Vaccine Acceptance: Assessment of Knowledge, Attitudes and Behaviors of Workers in Southern Italy (/2076-393X/10/11/1872)

by [Concetta Paola Pelullo](https://sciprofiles.com/profile/2159868) (<https://sciprofiles.com/profile/2159868>), [Pamela Tortoriello](https://sciprofiles.com/profile/2558956) (<https://sciprofiles.com/profile/2558956>),  
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
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**Abstract** (1) Background: this study investigated the preventive measures implemented in the workplace and evaluated knowledge, attitudes and adherence behaviors regarding SARS-CoV-2 routes of transmission and preventive measures in a group of workers. (2) Methods: this cross-sectional study was conducted from May to July [...] [Read more](#).

(This article belongs to the Special Issue [Vaccine and Vaccination: On Field Research](#) ([/journal/vaccines/special\\_issues/Vaccine\\_Italy](#)))

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### Informed Consent in Mass Vaccination against COVID-19 in Romania: Implications of Bad Management (/2076-393X/10/11/1871)

by [Sinziana-Elena Birsanu](https://sciprofiles.com/profile/2565482) (<https://sciprofiles.com/profile/2565482>), [Maria Cristina Plaiasu](https://sciprofiles.com/profile/2354092) (<https://sciprofiles.com/profile/2354092>) and  
[Codrut Andrei Nanu](https://sciprofiles.com/profile/858876) (<https://sciprofiles.com/profile/858876>)

*Vaccines* **2022**, *10*(11), 1871; <https://doi.org/10.3390/vaccines10111871> (<https://doi.org/10.3390/vaccines10111871>) - 05 Nov 2022

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**Abstract** Informing patients and obtaining valid informed consent were significant challenges for the COVID-19 immunization program. In Romania, the authorities issued a strategy for activities regarding vaccination against COVID-19, including the informed consent procedure. The lack of legal preparedness was evident when the medical [...] [Read more](#).




(This article belongs to the Special Issue [Safety Concerns, Sources of Liability, Compensation Strategies and the Right to Be Informed: Ethical and Legal Issues of COVID-19 Vaccination](#) ([/journal/vaccines/special\\_issues/Safety\\_Source\\_Compensation\\_Right\\_Ethical\\_Legal\\_COVID-19\\_Vaccination](#)))

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### Rural-Urban Disparities in Vaccine Hesitancy among Adults in South Tyrol, Italy (/2076-393X/10/11/1870)

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[Giuliano Piccoliori](https://sciprofiles.com/profile/author/R2ViVjBZVmwvcjFTMTIOdVROYjUxL200MENYN0p0SWtrMG5wYmRsay9hMWNHbHZwMlr) (<https://sciprofiles.com/profile/author/R2ViVjBZVmwvcjFTMTIOdVROYjUxL200MENYN0p0SWtrMG5wYmRsay9hMWNHbHZwMlr>) *Vaccines* 2022, 10(11), 1870; <https://doi.org/10.3390/vaccines10111870> (<https://doi.org/10.3390/vaccines10111870>) - 05 Nov 2022  
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**Abstract** Background: The demographic determinants of hesitancy in Coronavirus Disease—2019 (COVID-19) vaccination include rurality, particularly in low- and middle-income countries. In the second year of the pandemic, in South Tyrol, Italy, 15.6 percent of a representative adult sample reported hesitancy. Individual factors responsible for [...] [Read more.](#)

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**Investigation of Adverse Events Experienced by Healthcare Workers following Immunization with Homologous or Heterologous COVID-19 Booster Vaccinations** ([/2076-393X/10/11/1869](https://pub.mdpi-res.com/vaccines/vaccines-10-01869/article_deploy/html/images/vaccines-10-01869-g001-550.jpg?1668412561))

by [Yunhua Wei](https://sciprofiles.com/profile/author/MitiMi9nOUppaVpsUC8rL014WXdKVVpDbUIwcUZsWGRBWG1EekZmNW5NUT0=) (<https://sciprofiles.com/profile/author/MitiMi9nOUppaVpsUC8rL014WXdKVVpDbUIwcUZsWGRBWG1EekZmNW5NUT0=>), [Yan Wang](https://sciprofiles.com/profile/2422559) (<https://sciprofiles.com/profile/2422559>), [Jian Liu](https://sciprofiles.com/profile/2513546) (<https://sciprofiles.com/profile/2513546>), [Yan Zha](https://sciprofiles.com/profile/author/cVdQbE9uMjIwUHVZUUDWTEIHdKn2SFZWyThKaIVLNGFUNnBRZi9wVm52MD0=) (<https://sciprofiles.com/profile/author/cVdQbE9uMjIwUHVZUUDWTEIHdKn2SFZWyThKaIVLNGFUNnBRZi9wVm52MD0=>), [Yuqi Yang](https://sciprofiles.com/profile/author/a3IKWkhaS3hGZXZOb3puWGNnbTdhTXBkQ0lqM3Vzb25QYUIGQkxUbzZyWT0=) (<https://sciprofiles.com/profile/author/a3IKWkhaS3hGZXZOb3puWGNnbTdhTXBkQ0lqM3Vzb25QYUIGQkxUbzZyWT0=>), [Ni Li](https://sciprofiles.com/profile/author/TnlpdkJOR0xzWU1VUHJ6MGZIMmhdz09) (<https://sciprofiles.com/profile/author/TnlpdkJOR0xzWU1VUHJ6MGZIMmhdz09>), [Yalin Zhou](https://sciprofiles.com/profile/author/bm9MYUvpd2Y3dmRsbFdRaEYwaHEzNE0vRytSbExVYkV6K2tsU2FtOWFQdz0=) (<https://sciprofiles.com/profile/author/bm9MYUvpd2Y3dmRsbFdRaEYwaHEzNE0vRytSbExVYkV6K2tsU2FtOWFQdz0=>), [Jinli Zhu](https://sciprofiles.com/profile/author/eUxmYTY5NVJmekhJSVU4U1VpT2NpeHFQ0Z1bVVnNjdUY1N0NzNBSDE1bz0=) (<https://sciprofiles.com/profile/author/eUxmYTY5NVJmekhJSVU4U1VpT2NpeHFQ0Z1bVVnNjdUY1N0NzNBSDE1bz0=>), [Neil Roberts](https://sciprofiles.com/profile/2335936) (<https://sciprofiles.com/profile/2335936>), [Lin Liu](https://sciprofiles.com/profile/2444340) (<https://sciprofiles.com/profile/2444340>) and [Yaying Li](https://sciprofiles.com/profile/2420258) (<https://sciprofiles.com/profile/2420258>)

*Vaccines* 2022, 10(11), 1869; <https://doi.org/10.3390/vaccines10111869> (<https://doi.org/10.3390/vaccines10111869>) - 04 Nov 2022  
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**Abstract** Objective: A comparative analysis was performed to investigate the potential risk factors of Adverse Events Following Immunization (AEFI) after receiving different booster vaccines. Methods: From 18 January 2021 to 21 January 2022, the Health Care Workers (HCWs) of Guizhou Provincial Staff Hospital (Guizhou [...]) [Read more.](#)

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**Using the Women Empowerment in Livestock Index (WELI) to Examine Linkages between Women Smallholder Livestock Farmers' Empowerment and Access to Livestock Vaccines in Machakos County of Kenya: Insights and Critiques** ([/2076-393X/10/11/1868](https://pub.mdpi-res.com/vaccines/vaccines-10-01868/article_deploy/html/images/vaccines-10-01868-g001-550.jpg?1668420394))

by [Catherine Kaluwa](https://sciprofiles.com/profile/author/V2Q2bHQwZWIpcjllaHNUaEtxQXE3eEVlcWpzMDJ0N1cWdUR3dHQ4enM4cz0=) (<https://sciprofiles.com/profile/author/V2Q2bHQwZWIpcjllaHNUaEtxQXE3eEVlcWpzMDJ0N1cWdUR3dHQ4enM4cz0=>), [Jemimah Oduma](https://sciprofiles.com/profile/author/dEdaYnZqODIRM2QyeXhWYzIIPRGRISFNNVCtpZy96SHdmMihGSUN6OWdYND0=) (<https://sciprofiles.com/profile/author/dEdaYnZqODIRM2QyeXhWYzIIPRGRISFNNVCtpZy96SHdmMihGSUN6OWdYND0=>), [Faduma Abdullahi Abdurahman](https://sciprofiles.com/profile/1492621) (<https://sciprofiles.com/profile/1492621>), [Byalungwa Kyotos Kitoga](https://sciprofiles.com/profile/2173455) (<https://sciprofiles.com/profile/2173455>), [Angela A. Opondoh](https://sciprofiles.com/profile/author/NHJhSEFzSU5rcWJBVUJiTTZ0Q2FDvBNqU0EwSDIUUkxrZGNZZW1BSVI3R1gwWVNHtj) (<https://sciprofiles.com/profile/author/NHJhSEFzSU5rcWJBVUJiTTZ0Q2FDvBNqU0EwSDIUUkxrZGNZZW1BSVI3R1gwWVNHtj>)

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*Vaccines* 2022, 10(11), 1868; <https://doi.org/10.3390/vaccines10111868> (<https://doi.org/10.3390/vaccines10111868>) - 04 Nov 2022  
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**Abstract** Livestock diseases are a major barrier to productivity for both male and female livestock keepers in Africa. In Kenya, two of the most devastating livestock diseases are Newcastle Disease (ND) in poultry and Contagious Caprine Pleuropneumonia (CCPP) in goats. Female livestock keepers tend to be less aware of these diseases and their prevention. [Accept \(accept cookies\)](#)  
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**Immunogenicity of an mRNA-Based COVID-19 Vaccine among Adolescents with Obesity or Liver Transplants** ([/2076-393X/10/11/1867](#))

by [Chomchanat Tubjaroen](https://sciprofiles.com/profile/author/dS96b0o2ZUNSzZj4VEJTN1ISV2poVjRXTUkwM1JyQStuNmphTG9TYjZsQT0=) (<https://sciprofiles.com/profile/author/dS96b0o2ZUNSzZj4VEJTN1ISV2poVjRXTUkwM1JyQStuNmphTG9TYjZsQT0=>), [Sittichoke Prachuapthunyachart](https://sciprofiles.com/profile/1419862) (<https://sciprofiles.com/profile/1419862>), [Nattakoon Potjalongsilp](https://sciprofiles.com/profile/author/VnByK09sNEVtQnNRSjZITG9EejJHhNJja2FkUXBveVp40VBieGJjRGhrWT0=) (<https://sciprofiles.com/profile/author/VnByK09sNEVtQnNRSjZITG9EejJHhNJja2FkUXBveVp40VBieGJjRGhrWT0=>), [Pimpayao Sodsai](https://sciprofiles.com/profile/author/MHlpTEYwcDAyNGltU1J6NjR1NWpoV2Q4amdaSWIXMkpCSGJZZXlpWlpPMD0=) (<https://sciprofiles.com/profile/author/MHlpTEYwcDAyNGltU1J6NjR1NWpoV2Q4amdaSWIXMkpCSGJZZXlpWlpPMD0=>), [Nattiya Hirankarn](https://sciprofiles.com/profile/816148) (<https://sciprofiles.com/profile/816148>), [Peera Jaru-Ampornpan](https://sciprofiles.com/profile/2254808) (<https://sciprofiles.com/profile/2254808>) and [Voranship Chongrisawat](https://sciprofiles.com/profile/1063050) (<https://sciprofiles.com/profile/1063050>)

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**Abstract** There are limited data regarding the immunogenicity of mRNA-based SARS-CoV-2 vaccine BNT162b2 among immunosuppressed or obese adolescents. We evaluated the humoral immune response in adolescents with obesity and adolescent liver transplant recipients (LTRs) after receiving two BNT162b2 doses. Sixty-eight participants (44 males; mean [...]) [Read more.](#)

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**Evaluation of Conspiracy Beliefs, Vaccine Hesitancy, and Willingness to Pay towards COVID-19 Vaccines in Six Countries from Asian and African Regions: A Large Multinational Analysis** ([/2076-393X/10/11/1866](#))

by [Muhammad Salman](https://sciprofiles.com/profile/545038) (<https://sciprofiles.com/profile/545038>), [Tauqeer Hussain Mallhi](https://sciprofiles.com/profile/1351752) (<https://sciprofiles.com/profile/1351752>), [Nida Tanveer](https://sciprofiles.com/profile/author/CHNscys4dHo2eWlWem5FSjdvC0htUmdK0XNWRnBUZHnmNDdhMkjqcmVjZz0=) (<https://sciprofiles.com/profile/author/CHNscys4dHo2eWlWem5FSjdvC0htUmdK0XNWRnBUZHnmNDdhMkjqcmVjZz0=>), [Naureen Shehzadi](https://sciprofiles.com/profile/author/TTZZbk55TEJpb2FNMEtTK1VCUCtWMDAvTG9ZbDNaeTFEbdJSbkVkvUDVgWT0=) (<https://sciprofiles.com/profile/author/TTZZbk55TEJpb2FNMEtTK1VCUCtWMDAvTG9ZbDNaeTFEbdJSbkVkvUDVgWT0=>), [Humaira Majeed Khan](https://sciprofiles.com/profile/2819590) (<https://sciprofiles.com/profile/2819590>), [Zia Ul Mustafa](https://sciprofiles.com/profile/2168350) (<https://sciprofiles.com/profile/2168350>), [Tahir Mehmood Khan](https://sciprofiles.com/profile/491937) (<https://sciprofiles.com/profile/491937>), [Khalid Hussain](https://sciprofiles.com/profile/192754) (<https://sciprofiles.com/profile/192754>), [Malik Suliman Mohamed](https://sciprofiles.com/profile/2076551) (<https://sciprofiles.com/profile/2076551>), [Faheem Maqbool](https://sciprofiles.com/profile/677135) (<https://sciprofiles.com/profile/677135>), [Raja Ahsan Aftab](https://sciprofiles.com/profile/author/Z2hGYWZZb2RuZVJpME5oUjFSUFJUOVpRWXlwaHF3VWp1dGpJTU93eU41RT0=) (<https://sciprofiles.com/profile/author/Z2hGYWZZb2RuZVJpME5oUjFSUFJUOVpRWXlwaHF3VWp1dGpJTU93eU41RT0=>), [Muhammad Hammad Butt](https://sciprofiles.com/profile/1644741) (<https://sciprofiles.com/profile/1644741>), [Dibya Sundar Panda](https://sciprofiles.com/profile/1880940) (<https://sciprofiles.com/profile/1880940>), [Nasser Hadal Alotaibi](https://sciprofiles.com/profile/1964339) (<https://sciprofiles.com/profile/1964339>), [Amgad I. M. Khedr](https://sciprofiles.com/profile/843751) (<https://sciprofiles.com/profile/843751>), [Abdullah Salah Alanazi](https://sciprofiles.com/profile/1715049) (<https://sciprofiles.com/profile/1715049>), [Ahmed D. Alatawi](https://sciprofiles.com/profile/1988249) (<https://sciprofiles.com/profile/1988249>), [Abdulaziz Ibrahim Alzarea](https://sciprofiles.com/profile/1855930) (<https://sciprofiles.com/profile/1855930>), [Kishwar Sulatana](https://sciprofiles.com/profile/author/QmlqR0xYeU9XWWxRbDYxc1JYYndYQ0o4bURVMjNwCk1k0UG9rd3ZPWVITdTJqN2tacZlmc) (<https://sciprofiles.com/profile/author/QmlqR0xYeU9XWWxRbDYxc1JYYndYQ0o4bURVMjNwCk1k0UG9rd3ZPWVITdTJqN2tacZlmc>) and

[Yusra Habib Khan](https://sciprofiles.com/profile/2062737) (<https://sciprofiles.com/profile/2062737>)

*Vaccines* **2022**, *10*(11), 1866; <https://doi.org/10.3390/vaccines10111866> (<https://doi.org/10.3390/vaccines10111866>) - 04 Nov 2022

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**Abstract** Vaccination protects people from serious illness and associated complications. Conspiracy theories and misinformation on vaccines have been rampant during the COVID-19 pandemic and are considered significant drivers of vaccine hesitancy. Since vaccine hesitancy can undermine efforts to immunize the population against COVID-19 and [...]) [Read more.](#)

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### Short- and Long-Term Self-Reported Symptoms in Adolescents Aged 12–19 Years after Vaccination against SARS-CoV-2 Compared to Adolescents Not Vaccinated—A Danish Retrospective Cohort Study (./2076-393X/10/11/1863)

by Selina Kikkenborg Berg (https://sciprofiles.com/profile/2471744),  
Helle Wallach-Kildemoes (https://sciprofiles.com/profile/author/bFNYUU5PQy9oMk51dlhyTDJyVHZSTFIEOERnMDJSeU9NRGpKQkJ0a2h3TIgvcUh

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Susanne Dam Nielsen (https://sciprofiles.com/profile/1679221) and Anne Vinggaard Christensen (https://sciprofiles.com/profile/2561349)

Vaccines 2022, 10(11), 1863; https://doi.org/10.3390/vaccines10111863 (https://doi.org/10.3390/vaccines10111863) - 04 Nov 2022

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**Abstract** This study investigated self-reported short- and long-term symptoms among adolescents receiving the BNT162b2 (Pfizer/BioNTech) vaccine against SARS-CoV-2 and those who did not. A retrospective cohort study based on Danish national survey (collected between 20 July and 15 September 2021) and register data was [...] [Read more.](#)

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### Evolutionary Trajectories of Avian Avulaviruses and Vaccines Compatibilities in Poultry (./2076-393X/10/11/1862)

by Mohammed A. Rohaim (https://sciprofiles.com/profile/897201), Mohammad Q. Al-Natour (https://sciprofiles.com/profile/1234689),  
Rania F. El Naggat (https://sciprofiles.com/profile/1801388),  
Mohammed A. Abdelsabour (https://sciprofiles.com/profile/author/dnkwdWZ5Qk4wSIKbU9LTTVjc3BUSVYvTW5JVEJ6MmQybnljVVRXcFpQcz0=),  
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Muhammad Munir (https://sciprofiles.com/profile/460283)

Vaccines 2022, 10(11), 1862; https://doi.org/10.3390/vaccines10111862 (https://doi.org/10.3390/vaccines10111862) - 03 Nov 2022

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**Abstract** Newcastle disease virus (NDV) causes one of the highly infectious avian diseases in poultry leading to genuine financial misfortunes around the world. Recently, there has been an increasing trend in the number of ND-associated outbreaks in commercial Jordanian poultry flocks indicating a possible [...] [Read more.](#)

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### Recent Progress on Vaccines Produced in Transgenic Plants (./2076-393X/10/11/1861)

by Geobonne Geobonne (https://sciprofiles.com/profile/1029910) and Srividhya Venkataraman (https://sciprofiles.com/profile/1535293),  
Kamroni Al-Mumareke (https://sciprofiles.com/profile/author/TitXbThhTFhSaDBJeXF3ZCtXRUF5UCtLTmYrTDZqUmt2ekRIL1dJMUJQZGpXUndEW

Khaled Moustafa (https://sciprofiles.com/profile/157895), Kathleen Hefferon (https://sciprofiles.com/profile/364983) and  
Abdullah Makhzoum (https://sciprofiles.com/profile/1760717)

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**Abstract** The development of vaccines from plants has been going on for over two decades now. Vaccine production in plants requires time and a lot of effort. Despite global efforts in plant-made vaccine development, there are still challenges that hinder the realization of the [...] [Read more](#).

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**Updating the National Antigen Bank in Korea: Protective Efficacy of Synthetic Vaccine Candidates against H5Nx Highly Pathogenic Avian Influenza Viruses Belonging to Clades 2.3.2.1 and 2.3.4.4** ([/2076-393X/10/11/1860](#))

by [Yong-Myung Kang](#) (<https://sciprofiles.com/profile/2491445>), [Hyun-Kyu Cho](#) (<https://sciprofiles.com/profile/2709554>), [Sung-Jun An](#) (<https://sciprofiles.com/profile/author/Ym8xOXVHV3NYSUIsRkpqejlvcUZ6K01zZldNbWcyZ3ZsaFFSSkFvakVSaz0=>), [Hyun-Jun Kim](#) (<https://sciprofiles.com/profile/author/NUt6eE5RU2F2ZDdHUTZwTUM2RFFZb3NRWnV6S2p0aEV2THZRdmpNeUdFTT0=>), [Youn-Jeong Lee](#) (<https://sciprofiles.com/profile/1493114>) and [Hyun-Mi Kang](#) (<https://sciprofiles.com/profile/2518791>)

Vaccines 2022, 10(11), 1860; <https://doi.org/10.3390/vaccines10111860> (<https://doi.org/10.3390/vaccines10111860>), - 03 Nov 2022

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**Abstract** Since 2018, Korea has been building an avian influenza (AI) national antigen bank for emergency preparedness; this antigen bank is updated every 2 years. To update the vaccine strains in the antigen bank, we used reverse genetics technology to develop two vaccine candidates [...] [Read more](#).

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**Seroprevalence of Measles Antibodies in a Highly MMR-Vaccinated Population** ([/2076-393X/10/11/1859](#))

by [Huy Quang Quach](#) (<https://sciprofiles.com/profile/2497393>), [Inna G. Ovsyannikova](#) (<https://sciprofiles.com/profile/author/NmE3Vy9ndW8xOWtDRzI3YVISOFZuNWY1UGR3V1FtUU8rZ0JRcFFZT3FpST0=>), [Diane E. Grill](#) (<https://sciprofiles.com/profile/author/cFJGQldkNFhGc21iMDhIZUVImzJHQT09>), [Nathaniel D. Warner](#) (<https://sciprofiles.com/profile/author/MTNDbUZwaVJDZ0ErYWEzN25aNHdEM0twUkFWc3ordnpLL3hOTUlnRmk1az0=>), [Gregory A. Poland](#) (<https://sciprofiles.com/profile/author/eWt6b2dVaEhOdVpZVkhct2VhbkFXOVZ4RnRXRWNPumpQT2puVFE1c3Bqcz0=>) and [Richard B. Kennedy](#) (<https://sciprofiles.com/profile/2497046>)

Vaccines 2022, 10(11), 1859; <https://doi.org/10.3390/vaccines10111859> (<https://doi.org/10.3390/vaccines10111859>), - 03 Nov 2022

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**Abstract** As an extremely contagious pathogen, a high rate of vaccine coverage and the durability of vaccine-induced immunity are key factors to control and eliminate measles. Herein, we assessed the seroprevalence of antibodies specific to measles in a cohort of 1393 adults (20–44 years [...]) [Read more](#).

(This article belongs to the Special Issue [Strategies for Global Measles Surveillance and Vaccination](#) ([/journal/vaccines/special\\_issues/measles\\_vaccine](#).)

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**Secondary School Teachers and Outpatient Physicians: Differences in Attitudes towards Vaccination against COVID-19 in Slovakia** ([/2076-393X/10/11/1858](#))

by [Maria Tatarikova](#) (<https://sciprofiles.com/profile/2536257>), [Romana Ulbrichtova](#) (<https://sciprofiles.com/profile/1781361>), [Viera Svihrova](#) (<https://sciprofiles.com/profile/1645747>), [Jana Zibolenova](#) (<https://sciprofiles.com/profile/1685264>), [Martin Novak](#) (<https://sciprofiles.com/profile/2441688>), [Jan Jr. Svihra, Jr.](#) (<https://sciprofiles.com/profile/2493221>) and [Henrieta Hudeckova](#) (<https://sciprofiles.com/profile/2470943>)

Vaccines 2022, 10(11), 1858; <https://doi.org/10.3390/vaccines10111858> (<https://doi.org/10.3390/vaccines10111858>), - 02 Nov 2022

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**Abstract** The aim of this study was to evaluate the differences in attitudes towards vaccination against COVID-19 among secondary school teachers and outpatient physicians. A cross-sectional study was realised using anonymous questionnaires. The EPI Info 7 program and R software, version 4.0.2 were used

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(This article belongs to the Special Issue [The Effect of COVID-19 Vaccine Acceptance, Intention, and/or Hesitancy and Its Association with Our Health and/or Important Areas of Functioning](#) ([/journal/vaccines/special\\_issues/ALV8UPZGDZ](#).)

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### [Geographic and Socioeconomic Inequalities in Delays in COVID-19 Vaccinations: A Cross-Sectional Study in Indonesia](#) ([/2076-393X/10/11/1857](#))

by [Hario Megatsari](#) (<https://sciprofiles.com/profile/2555348>), [Dian Kusuma](#) (<https://sciprofiles.com/profile/1475362>), [Ernawaty Ernawaty](#) (<https://sciprofiles.com/profile/author/MFROK3JHYWpNNWRmVVRhaGVkemo4bjIvaFR5ZmUyNlIzUXFOQnIUUzXUT0=>), and [Nuzulul K. Putri](#) (<https://sciprofiles.com/profile/author/dUtbjVY0U3pPVjVCdWpTT3cyS0gxOXpBTFRIZUg2UX1c0QvME0vd2pEWT0=>). *Vaccines* **2022**, *10*(11), 1857; <https://doi.org/10.3390/vaccines10111857> (<https://doi.org/10.3390/vaccines10111857>) - 02 Nov 2022

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**Abstract** Background: Previous studies have provided evidence of inequalities in the coverage of COVID-19 vaccination. However, evidence of such inequalities in delays in vaccinations is lacking. Our study examined the socioeconomic and geographic disparities in terms of days to get the first and second [...] [Read more.](#)

(This article belongs to the Special Issue [Epidemiology, Vaccination and Public Health](#) ([/journal/vaccines/special\\_issues/Epidemiology\\_Health](#).)

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### [Influenza A\(H7N9\) Pandemic Preparedness: Assessment of the Breadth of Heterologous Antibody Responses to Emerging Viruses from Multiple Pre-Pandemic Vaccines and Population Immunity](#) ([/2076-393X/10/11/1856](#))

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*Vaccines* **2022**, *10*(11), 1856; <https://doi.org/10.3390/vaccines10111856> (<https://doi.org/10.3390/vaccines10111856>) - 01 Nov 2022

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**Abstract** Influenza A(H7N9) viruses remain as a high pandemic threat. The continued evolution of the A(H7N9) viruses poses major challenges in pandemic preparedness strategies through vaccination. We assessed the breadth of the heterologous neutralizing antibody responses against the 3rd and 5th wave A(H7N9) viruses [...] [Read more.](#)

(This article belongs to the Special Issue [Technologies for Influenza Vaccines that Provide Increased Speed, Efficacy and Ease of Administration](#) ([/journal/vaccines/special\\_issues/Inf\\_vaccines](#).)

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**Effect of Vaccination Time Intervals on SARS-COV-2 Omicron Variant Strain Infection in Guangzhou: A Real-World Matched Case–Control Study** (/2076-393X/10/11/1855)

by [Yufen Li](https://sciprofiles.com/profile/1483461) (<https://sciprofiles.com/profile/1483461>),  
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*Vaccines* 2022, 10(11), 1855; <https://doi.org/10.3390/vaccines10111855> (<https://doi.org/10.3390/vaccines10111855>) - 01 Nov 2022

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**Abstract** In April 2022, a COVID-19 outbreak caused by the Omicron variant emerged in Guangzhou. A case–control study was conducted to explore the relationship between vaccination intervals and SARS-CoV-2 infection in the real world. According to the vaccination dose and age information of the [...] **Read more.**

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**Molecular Lipopolysaccharide Di-Vaccine Protects from Shiga-Toxin Producing Epidemic Strains of *Escherichia coli* O157:H7 and O104:H4** (/2076-393X/10/11/1854)

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**Abstract** Background: Shiga toxin-producing *Escherichia coli* (STEC) O157:H7 and O104:H4 strains are important causative agents of food-borne diseases such as hemorrhagic colitis and hemolytic–uremic syndrome, which is the leading cause of kidney failure and death in children under 5 years as well as in [...] **Read more.**

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**Brazilian Adults' Attitudes and Practices Regarding the Mandatory COVID-19 Vaccination and Their Hesitancy towards Childhood Vaccination** (/2076-393X/10/11/1853)

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*Vaccines* 2022, 10(11), 1853; <https://doi.org/10.3390/vaccines10111853> (https://doi.org/10.3390/vaccines10111853) - 01 Nov 2022  
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**Abstract** Background: This study investigated the attitudes and practices of Brazilian adults regarding the mandatory COVID-19 vaccination and their hesitancy towards the vaccination of children. Methods: Between March and May 2022, Brazilian adults answered an online questionnaire distributed through social media. The SAGE-WG questionnaire [...] [Read more.](#)

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**Retraction:** Sung et al. Expression of SARS-CoV-2 Spike Protein Receptor Binding Domain on Recombinant *B. subtilis* on Spore Surface: A Potential COVID-19 Oral Vaccine Candidate. *Vaccines* 2022, 10, 2 (2076-393X/10/11/1852)

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*Vaccines* 2022, 10(11), 1852; <https://doi.org/10.3390/vaccines10111852> (https://doi.org/10.3390/vaccines10111852) - 01 Nov 2022  
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**Abstract** The journal retracts the article "Expression of SARS-CoV-2 Spike Protein Receptor Binding Domain on Recombinant *B. subtilis* on Spore Surface: A Potential COVID-19 Oral Vaccine Candidate" [...] [Full article](#) (/2076-393X/10/11/1852)

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*Vaccines* 2022, 10(11), 1851; <https://doi.org/10.3390/vaccines10111851> (https://doi.org/10.3390/vaccines10111851) - 31 Oct 2022  
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**Abstract** COVID-19 vaccination leads to lower infection, morbidity, and mortality rates. However, COVID-19 infection leads to the development of coagulopathy-related manifestations in the form of both venous and arterial thromboembolism. This study aimed to assess the severity and mortality predictors of COVID-19 patients with [...] [Read more.](#)

(This article belongs to the Special Issue [COVID-19 Vaccination, Role of Vaccines and Global Health](#) (/journal/vaccines/special\_issues/CRG))

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### Designing of Peptide Based Multi-Epitope Vaccine Construct against Gallbladder Cancer Using Immunoinformatics and Computational Approaches (2076-393X/10/11/1850)

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*Vaccines* 2022, 10(11), 1850; <https://doi.org/10.3390/vaccines10111850> (https://doi.org/10.3390/vaccines10111850) - 31 Oct 2022  
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**Abstract** Gallbladder cancer (GBC) is an aggressive and difficult to treat biliary tract carcinoma with a poor survival rate. The aim of this study was to design a peptide-based multi-epitope vaccine construct against GBC using immunoinformatics approaches. Three proteins implicated in the progression of [...] [Read more.](#)

(This article belongs to the Special Issue [Advances in Cancer Immunotherapy and Vaccines Research](#) (/journal/vaccines/special\_issues/cancer\_immunotherapy\_vaccines))

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### Nucleic Acid Vaccines against SARS-CoV-2 (2076-393X/10/11/1849)

by [Ying Liu](https://sciprofiles.com/profile/author/a3RKTE5qalRVVTJmUEZydTE4YzNZVFVfDlPjYjITNEh3UIBLcmxwQzIwTT0=) and [Qing Ye](https://sciprofiles.com/profile/1229239)

*Vaccines* 2022, 10(11), 1849; <https://doi.org/10.3390/vaccines10111849> (https://doi.org/10.3390/vaccines10111849) - 31 Oct 2022  
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**Abstract** The coronavirus disease 2019 (COVID-19) has spread worldwide and imposed a substantial burden on human health, the environment, and socioeconomic development, which has also accelerated the process of nucleic acid vaccine development and licensure. Nucleic acid vaccines are viral genetic sequence-based vaccines and [...] [Read more.](#)

(This article belongs to the Special Issue [Safety and Efficacy of COVID-19 Vaccine](#) (/journal/vaccines/special\_issues/16H583QLD9))

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### Nanoformulations with *Leishmania braziliensis* Antigens Triggered Controlled Parasite Burden in Vaccinated Golden Hamster (*Mesocricetus auratus*) against Visceral Leishmaniasis (2076-393X/10/11/1848)

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Vaccines 2022, 10(11), 1848; https://doi.org/10.3390/vaccines10111848 (https://doi.org/10.3390/vaccines10111848) - 31 Oct 2022

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**Abstract** Leishmaniasis is a widespread vector-borne disease in Brazil, with *Leishmania (Leishmania) infantum* as the primary etiological agent of visceral leishmaniasis (VL). Dogs are considered the main reservoir of this parasite, whose treatment in Brazil is restricted to the use of veterinary [...] **Read more.**  
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Vaccines 2022, 10(11), 1847; https://doi.org/10.3390/vaccines10111847 (https://doi.org/10.3390/vaccines10111847) - 31 Oct 2022

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**Abstract** At the onset of the SARS-CoV-2 pandemic, individual and social measures were strengthened through restrictive non-pharmaceutical interventions, labelled with the term “lockdown”. In Italy, there were two lockdowns (9 March 2020–3 May 2020 and 3 November 2020–27 March 2021). As part of preventive [...] **Read more.**  
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**Global Dynamics of SARS-CoV-2 Infection with Antibody Response and the Impact of Impulsive Drug Therapy** [\(/2076-393X/10/11/1846\)](#)

by  **Armar Nath Chatterjee** (<https://sciprofiles.com/profile/837381>),  **Fahad Al Basir** (<https://sciprofiles.com/profile/477667>),  **Dibyendu Biswas** (<https://sciprofiles.com/profile/469069>) and  **Teklebirhan Abraha** (<https://sciprofiles.com/profile/197602>), *Vaccines* **2022**, *10*(11), 1846; <https://doi.org/10.3390/vaccines10111846> (<https://doi.org/10.3390/vaccines10111846>) - 31 Oct 2022





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**Abstract** Mathematical modeling is crucial to investigating the ongoing coronavirus disease 2019 (COVID-19) pandemic. The primary target area of the SARS-CoV-2 virus is epithelial cells in the human lower respiratory tract. During this viral infection, infected cells can activate innate and adaptive immune responses [...] [Read more.](#)

(This article belongs to the Special Issue [Dynamic Models in Viral Immunology](#) ([./journal/vaccines/special\\_issues/Model\\_Vaccines](#)))**Show Figures**

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**Migratory Engineering of T Cells for Cancer Therapy** [\(/2076-393X/10/11/1845\)](#)

by  **Stefanos Michaelides** (<https://sciprofiles.com/profile/2487492>),  **Hannah Obeck** (<https://sciprofiles.com/profile/author/Vk5tZTVtZmt2T1RyQUJleC9FY1JSdEFQb0orV1hSSG9yZHVEV2pndjVoYz0=>),  **Daryna Kechur** (<https://sciprofiles.com/profile/author/Y1ZJY0EyRXFFbJDT2xSRkcxWEduUm85Mk1jbzNBb09kdZfjVmr1JCVWIQVkhNcDVqVG9>),  **Stefan Endres** (<https://sciprofiles.com/profile/author/ZVpWHBOa0dNa2ZQTld3T0IFODQrUVBqcm04aGhWNUxvNHE4T1pzNXpKemJVbTU0VnRvY>) and





 **Sebastian Kobold** (<https://sciprofiles.com/profile/646310>)*Vaccines* **2022**, *10*(11), 1845; <https://doi.org/10.3390/vaccines10111845> (<https://doi.org/10.3390/vaccines10111845>) - 31 Oct 2022**Cited by 1** ([/2076-393X/10/11/1845#metrics](#)) | Viewed by 1009

**Abstract** Adoptive cell therapy (ACT) and chimeric antigen receptor (CAR) T cell therapy in particular represents an adaptive, yet versatile strategy for cancer treatment. Convincing results in the treatment of hematological malignancies have led to FDA approval for several CAR T cell therapies in [...] [Read more.](#)

(This article belongs to the Special Issue [Latest Advances in Molecular and Cellular Immunotherapy](#) ([./journal/vaccines/special\\_issues/molecular\\_cell\\_immu](#)))**Show Figures**

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**The Advantage of Using Immunoinformatic Tools on Vaccine Design and Development for Coronavirus** [\(/2076-393X/10/11/1844\)](#)

by  **Jazmin García-Machorro** (<https://sciprofiles.com/profile/1656810>),  **Gema Lizbeth Ramírez-Salinas** (<https://sciprofiles.com/profile/2506652>),  **Marlet Martínez-Archundia** (<https://sciprofiles.com/profile/2149813>) and  **José Correa-Basurto** (<https://sciprofiles.com/profile/1656809>) *Vaccines* **2022**, *10*(11), 1844; <https://doi.org/10.3390/vaccines10111844> (<https://doi.org/10.3390/vaccines10111844>) - 31 Oct 2022

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**Abstract** After the outbreak of SARS-CoV-2 by the end of 2019, the vaccine development strategies became a worldwide priority. Furthermore, the appearances of novel SARS-CoV-2 variants challenge researchers to develop new pharmacological or preventive strategies. However, vaccines still represent an efficient way to control [...] [Read more.](#)

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**Comparing the Immunogenicity and Protective Effects of Three MERS-CoV Inactivation Methods in Mice** [\(/2076-393X/10/11/1843\)](#)[Back to Top](#)

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*Vaccines* 2022, 10(11), 1843; <https://doi.org/10.3390/vaccines10111843> (<https://doi.org/10.3390/vaccines10111843>), - 31 Oct 2022  
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**Abstract** The Middle East respiratory syndrome (MERS) is a fatal acute viral respiratory disease caused by MERS-coronavirus (MERS-CoV) infection. To date, no vaccine has been approved for MERS-CoV despite continuing outbreaks. Inactivated vaccines are a viable option when developed using the appropriate inactivation methods [...]. [Read more.](#)

(This article belongs to the Section [Vaccines against Infectious Diseases](#) ([/journal/vaccines/sections/infectious\\_diseases](#)))

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**COVID-19 Vaccine Acceptance and Associated Factors among Women in Saudi Arabia: A Cross-Sectional Study** ([/2076-393X/10/11/1842](#))

by [Noor Alshareef](https://sciprofiles.com/profile/1466003) (<https://sciprofiles.com/profile/1466003>)  
*Vaccines* 2022, 10(11), 1842; <https://doi.org/10.3390/vaccines10111842> (<https://doi.org/10.3390/vaccines10111842>), - 31 Oct 2022  
**Cited by 1** ([/2076-393X/10/11/1842#metrics](#)) | Viewed by 583

**Abstract** Although women have been substantially affected by the pandemic, they tend to have a lower likelihood of COVID-19 vaccine acceptance. Research on factors associated with COVID-19 vaccine acceptance among this key population is imperative. Thus, this study aimed to assess COVID-19 vaccine acceptance [...]. [Read more.](#)

(This article belongs to the Section [Vaccines against Infectious Diseases](#) ([/journal/vaccines/sections/infectious\\_diseases](#)))

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**Long-Term Effectiveness of Hepatitis B Vaccination in the Protection of Healthcare Students in Highly Developed Countries: A Systematic Review and Meta-Analysis** ([/2076-393X/10/11/1841](#))

by [Alborz Rahmani](https://sciprofiles.com/profile/2492883) (<https://sciprofiles.com/profile/2492883>), [Alfredo Montecucco](https://sciprofiles.com/profile/author/Rk9jMGINYThXMjNNGkzMjJzWlQ4UTM4TGNgq2VEUXGwNEdKWStyVmJpdz0=) (<https://sciprofiles.com/profile/author/Rk9jMGINYThXMjNNGkzMjJzWlQ4UTM4TGNgq2VEUXGwNEdKWStyVmJpdz0=>), [Bruno Kusznir Vitturi](https://sciprofiles.com/profile/2305575) (<https://sciprofiles.com/profile/2305575>), [Nicoletta Debarbieri](https://sciprofiles.com/profile/author/YzBLYkNzNWxaNFA2bmhnbksxTFE3TzdFWUd3UESrTk92VzJ4bTRVZfVUMrVDI6QlJK) (<https://sciprofiles.com/profile/author/YzBLYkNzNWxaNFA2bmhnbksxTFE3TzdFWUd3UESrTk92VzJ4bTRVZfVUMrVDI6QlJK>), [Guglielmo Dini](https://sciprofiles.com/profile/2603607) (<https://sciprofiles.com/profile/2603607>) and [Paolo Durando](https://sciprofiles.com/profile/757703) (<https://sciprofiles.com/profile/757703>)  
*Vaccines* 2022, 10(11), 1841; <https://doi.org/10.3390/vaccines10111841> (<https://doi.org/10.3390/vaccines10111841>), - 30 Oct 2022  
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**Abstract** Hepatitis B virus represents an important global health problem. In highly developed countries, mass vaccination campaigns of newborns in recent decades have drastically reduced the proportion of carriers. However, workers exposed to blood and body fluids, including healthcare students, can be at risk [...]. [Read more.](#)

(This article belongs to the Special Issue [Hepatitis and Vaccines](#) ([/journal/vaccines/special\\_issues/hepatitis\\_and\\_vaccines](#)))

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## Association of Human Leucocyte Antigen Polymorphism with Coronavirus Disease 19 in Renal Transplant Recipients (./2076-393X/10/11/1840)

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*Vaccines* **2022**, *10*(11), 1840; <https://doi.org/10.3390/vaccines10111840> (<https://doi.org/10.3390/vaccines10111840>) - 30 Oct 2022

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**Abstract** Human leucocyte antigens (HLAs) are highly polymorphic glycoproteins expressed at the surface of all nucleated cells. It is required for the SARS-CoV-2 peptide antigen presentation to immune cells for their effector response. However, polymorphism in HLA significantly impacts the binding of SARS-CoV-2 antigenic [...] [Read more](#).

(This article belongs to the Special Issue [Host-Directed Immunotherapies for COVID-19](#) ([/journal/vaccines/special\\_issues/host\\_directed\\_immunotherapies](#)))

## Tag-Free SARS-CoV-2 Receptor Binding Domain (RBD), but Not C-Terminal Tagged SARS-CoV-2 RBD, Induces a Rapid and Potent Neutralizing Antibody Response (./2076-393X/10/11/1839)

by [Ting-Wei Lin](https://sciprofiles.com/profile/2504054) (<https://sciprofiles.com/profile/2504054>), [Ping-Han Huang](https://sciprofiles.com/profile/2518783) (<https://sciprofiles.com/profile/2518783>), [Bo-Hung Liao](https://sciprofiles.com/profile/author/bWdTZDQyQ0diem9WUdrTHpDMThnSEZuWWw0K2UwTstVzLRTSDBLaXU3TT0=) (<https://sciprofiles.com/profile/author/bWdTZDQyQ0diem9WUdrTHpDMThnSEZuWWw0K2UwTstVzLRTSDBLaXU3TT0=>), [Tai-Ling Chao](https://sciprofiles.com/profile/author/dXlqMkRIRkZiamF1ZIN3TjVNFJqaGRZRDFFWmpMN1Jvd3hYl2pFRIJwST0=) (<https://sciprofiles.com/profile/author/dXlqMkRIRkZiamF1ZIN3TjVNFJqaGRZRDFFWmpMN1Jvd3hYl2pFRIJwST0=>), [Ya-Min Tsai](https://sciprofiles.com/profile/author/dnpZeXRvRgpjNFp3NjRIRHNdUsvYVUraIVDTEVFDFJvXNRT1N4QnlOTT0=) (<https://sciprofiles.com/profile/author/dnpZeXRvRgpjNFp3NjRIRHNdUsvYVUraIVDTEVFDFJvXNRT1N4QnlOTT0=>), [Shih-Chung Chang](https://sciprofiles.com/profile/author/cjJydUVXZ1QzMUZOdk1IS0Z2em1TZkJ5TUg5TWhqZi9xSXhvZzBhM0RLUT0=) (<https://sciprofiles.com/profile/author/cjJydUVXZ1QzMUZOdk1IS0Z2em1TZkJ5TUg5TWhqZi9xSXhvZzBhM0RLUT0=>), [Sui-Yuan Chang](https://sciprofiles.com/profile/2347113) (<https://sciprofiles.com/profile/2347113>) and [Hui-Wen Chen](https://sciprofiles.com/profile/174577) (<https://sciprofiles.com/profile/174577>)

*Vaccines* **2022**, *10*(11), 1839; <https://doi.org/10.3390/vaccines10111839> (<https://doi.org/10.3390/vaccines10111839>) - 30 Oct 2022

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**Abstract** Recombinant proteins are essential in the development of subunit vaccines. In the design of many recombinant proteins, polyhistidine residues are added to the N- or C-termini of target sequences to facilitate purification. However, whether the addition of tag residues influences the immunogenicity of [...] [Read more](#).

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## The Correlated Beta Dose Optimisation Approach: Optimal Vaccine Dosing Using Mathematical Modelling and Adaptive Trial Design (./2076-393X/10/11/1838)

by [John Benest](https://sciprofiles.com/profile/940818) (<https://sciprofiles.com/profile/940818>), [Sophie Rhodes](https://sciprofiles.com/profile/990019) (<https://sciprofiles.com/profile/990019>), [Thomas G. Evans](https://sciprofiles.com/profile/1587797) (<https://sciprofiles.com/profile/1587797>) and [Richard G. White](https://sciprofiles.com/profile/author/RTZUMWtFRDikTXVBWGNaz1AyN2i4Sm1sdW9LbkExR28zemNiL1puVEZUST0=) (<https://sciprofiles.com/profile/author/RTZUMWtFRDikTXVBWGNaz1AyN2i4Sm1sdW9LbkExR28zemNiL1puVEZUST0=>)

*Vaccines* **2022**, *10*(11), 1838; <https://doi.org/10.3390/vaccines10111838> (<https://doi.org/10.3390/vaccines10111838>) - 30 Oct 2022

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**Abstract** Models in our field are often used to gain the best experience to be effective for optimising vaccine dose but are not yet commonly used. This method of parametric model for dose-efficacy or dose-toxicity. Non-parametric models [...] [Read more](#).

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## Serological Immune Response Following ChAdOx1 nCoV-19 Vaccine (Covishield®) in Patients with Liver Cirrhosis ((2076-393X/10/11/1837))

by  Amit Goel (<https://sciprofiles.com/profile/2387996>),

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*Vaccines* **2022**, *10*(11), 1837; <https://doi.org/10.3390/vaccines10111837> (<https://doi.org/10.3390/vaccines10111837>) - 30 Oct 2022

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**Abstract** Introduction: Data are limited on antibody response to the ChAdOx1 nCoV-19 vaccine (AZD1222; Covishield®) in cirrhosis. We studied the antibody response following two doses of the ChAdOx1 vaccine, given 4–12 weeks apart, in cirrhosis. Methods: Prospectively enrolled, 131 participants (71% males; [...]) **Read more.**

(This article belongs to the Section **COVID-19 Vaccines and Vaccination** ([/journal/vaccines/sections/COVID-19\\_vaccines\\_vaccination/](/journal/vaccines/sections/COVID-19_vaccines_vaccination/)))



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by  Ellie Hayhurst (<https://sciprofiles.com/profile/author/Nm5iZ2lJTGhJYVpyNc6tZHZJQqKQxNXNKS5m5TeDZKdk42TE5xMHVqZ1pMND0=>),  
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**Abstract** Solid dose vaccine formulation and delivery systems offer potential advantages over traditional liquid vaccine formulations. In addition to enhanced thermostability, needle-free delivery of unit solid dose injectable (USDI) vaccines offers safe, rapid, and error-free administration, with applicability to both human and animal health. [...] [Read more.](#)

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







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**[Vaccination Confidence among Healthcare Workers: Results from Two Anamnestic Questionnaires Adopted in the COVID-19 and Influenza Campaign](#)** ([/2076-393X/10/11/1835](#))

by  [Ihab Mansour \(https://sciprofiles.com/profile/2392409\)](https://sciprofiles.com/profile/2392409),  [Giulia Collatuzzo \(https://sciprofiles.com/profile/1875412\)](https://sciprofiles.com/profile/1875412),  
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


**Abstract** Background: Following the announcement of the development of COVID-19 vaccines, hesitancy about the safety of vaccinations and their side effects have spread, despite having the approval of international drug agencies. The aim of this study was to test the hypothesis that concern about [...] [Read more.](#)

(This article belongs to the Special Issue [Challenges and Future Trends of COVID-19 Vaccination](#) ([/journal/vaccines/special\\_issues/covid\\_vaccination](#)))

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**[Study on the Vaccination of the Population of Romania against Monkeypox in Terms of Medical Security](#)** ([/2076-393X/10/11/1834](#))

by  [Cătălin Peptan \(https://sciprofiles.com/profile/author/TTcwZwDeaENLWkYwZXIDaUdCNVhxaHV4UzR2UnhvNvVRRrTVLY2QrTmJJYz0=\)](https://sciprofiles.com/profile/author/TTcwZwDeaENLWkYwZXIDaUdCNVhxaHV4UzR2UnhvNvVRRrTVLY2QrTmJJYz0=),  
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*Vaccines* 2022, 10(11), 1834; <https://doi.org/10.3390/vaccines10111834> (<https://doi.org/10.3390/vaccines10111834>) - 29 Oct 2022

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**Abstract** Although it has been shown in numerous studies that immunization of the population by vaccination is the most effective way to protect against smallpox or other polioviruses, the anti-vaccination public rhetoric recorded during the COVID-19 pandemic is likely to influence the populations acceptance [...] [Read more.](#)

(This article belongs to the Section [Vaccines and Society](#) ([/journal/vaccines/sections/Vaccines\\_Society](#)))

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**[SARS-CoV-2 IgG Antibody Levels in Women with IBD Vaccinated during Pregnancy](#)** ([/2076-393X/10/11/1833](#))

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[Ariella Bar-Gil Shitrit](https://sciprofiles.com/profile/1506925) (<https://sciprofiles.com/profile/1506925>).

*Vaccines* 2022, 10(11), 1833; <https://doi.org/10.3390/vaccines10111833> (<https://doi.org/10.3390/vaccines10111833>), - 29 Oct 2022

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**Abstract** Introduction: Regulatory agencies supported vaccination of pregnant women with SARS-CoV-2 mRNA vaccines, including patients with IBD. No data exist regarding these vaccines in IBD during pregnancy. Aim: To assess the serologic response to two doses of the mRNA SARS-CoV-2 BNT162b2 vaccine in pregnant [...]. [Read more.](#)

(This article belongs to the Section [COVID-19 Vaccines and Vaccination](#) ([/journal/vaccines/sections/COVID-19\\_vaccines\\_vaccination/](/journal/vaccines/sections/COVID-19_vaccines_vaccination/)))

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**The Association of Health Literacy with Intention to Vaccinate and Vaccination Status: A Systematic Review** (</2076-393X/10/11/1832>)

by [Leonardo Maria Siena](https://sciprofiles.com/profile/2494472) (<https://sciprofiles.com/profile/2494472>), [Claudia Isonne](https://sciprofiles.com/profile/2004991) (<https://sciprofiles.com/profile/2004991>),  
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*Vaccines* 2022, 10(11), 1832; <https://doi.org/10.3390/vaccines10111832> (<https://doi.org/10.3390/vaccines10111832>), - 29 Oct 2022

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**Abstract** Despite health literacy (HL) being recognized as a driver of health-promoting behavior, its influence on the vaccination decision-making process remains unclear. This study summarized current evidence on the association between HL and both intention to vaccinate and vaccination status. We searched PubMed, Scopus, [...]. [Read more.](#)

(This article belongs to the Special Issue [Epidemiology, Vaccination and Public Health](#) ([/journal/vaccines/special\\_issues/Epidemiology\\_Health/](/journal/vaccines/special_issues/Epidemiology_Health/)))

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**Impact after the Change from Voluntary to Universal Oral Rotavirus Vaccination on Consecutive Emergency Department Visits for Acute Gastroenteritis among Children in Kobe City, Japan (2016–2022)** (</2076-393X/10/11/1831>)

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*Vaccines* 2022, 10(11), 1831; <https://doi.org/10.3390/vaccines10111831> (<https://doi.org/10.3390/vaccines10111831>), - 29 Oct 2022

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**Abstract** Rotavirus (RV) is the leading cause of acute gastroenteritis (AGE), particularly in infants. In 2006, the high efficacy of oral RV vaccines (RVVs, RotaShield<sup>®</sup> and RotaTeq<sup>™</sup>) was demonstrated. Voluntary RVV started in Japan in 2011, and in October 2020 were [...] [Read more](#).

(This article belongs to the Special Issue [The Current Situation and Future Perspective of Vaccines against Infectious Diseases in Children and Women](#) ([/journal/vaccines/special\\_issues/K3S9034E1T](#)))

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► **Third Dose COVID-19 Vaccination in Allogeneic Hematopoietic Stem Cell Transplantation Patients** ([/2076-393X/10/11/1830](#))

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**Abstract** We previously reported that a second dose of BNT162b2 was safe and effective for allogeneic hematopoietic stem cell transplantation (HSCT) patients. Here, we investigated the safety and efficacy of a third dose of COVID-19 mRNA vaccine in allogeneic HSCT patients. Antibody titers against [...]

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(This article belongs to the Special Issue [Immune Responses to COVID-19 Vaccines](#) ([/journal/vaccines/special\\_issues/Immune\\_COVID](#)))

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Open Access Review

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► **Laboratory Indicators for Identifying Hand, Foot, and Mouth Disease Severity: A Systematic Review and Meta-Analysis** ([/2076-393X/10/11/1829](#))

by [Yaqi Xie](#) (<https://sciprofiles.com/profile/author/WFJVWFRicmZmTmxWWW1Oc2U3QjhnUINDbjJrd3VsbVvk2YjRDQ0JCZTVqYz0=>), [Quanman Hu](#) (<https://sciprofiles.com/profile/author/RfPJSFdnQXdwk1pM3YvTnVWOHU2QzVNY3RCNGJxMGc5YUx4WWtHTWNbnz0=>), [Wenjie Jiang](#) (<https://sciprofiles.com/profile/2422809>), [Wangquan Ji](#) (<https://sciprofiles.com/profile/2366685>), [Shuaiyin Chen](#) (<https://sciprofiles.com/profile/964658>), [Yuefei Jin](#) (<https://sciprofiles.com/profile/205999>) and [Guangcai Duan](#) (<https://sciprofiles.com/profile/385065>)

*Vaccines* **2022**, *10*(11), 1829; <https://doi.org/10.3390/vaccines10111829> (<https://doi.org/10.3390/vaccines10111829>) - 29 Oct 2022

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**Abstract** Objective: The purpose of this study is to study laboratory indicators for the identification of hand, foot, and mouth disease (HFMD) severity. Methods: We searched PubMed, Embase, and the Web of Science for literature that was published before May 2022. The main results [...]

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### Parent's Hesitation with COVID-19 Vaccinations in Infants and Children Aged 6 Months to 5 Years (/2076-393X/10/11/1828)

by [Austin M. Temple](https://sciprofiles.com/profile/2454650) (<https://sciprofiles.com/profile/2454650>),

[Evelyn Schendler](https://sciprofiles.com/profile/author/UkgwaWtQZIQzZ1ZDbUpjbGVHUUIDOXNRUSTMaVBTvFNHQjJVSkfYTXZwUT0=) (<https://sciprofiles.com/profile/author/UkgwaWtQZIQzZ1ZDbUpjbGVHUUIDOXNRUSTMaVBTvFNHQjJVSkfYTXZwUT0=>) and

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*Vaccines* **2022**, *10*(11), 1828; <https://doi.org/10.3390/vaccines10111828> (<https://doi.org/10.3390/vaccines10111828>) - 29 Oct 2022

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**Abstract** We implemented an in-person survey of parents/guardians concerning COVID-19 vaccine for a predominantly African-American Medicaid pediatric patient population between the ages of 6–59 months at a Children's Hospital General Pediatric Clinic in Norfolk, VA. Vaccine hesitancy was predominantly based on concerns surrounding safety [...]. [Read more.](#)

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### Determinants of Antibody Response to SARS-CoV-2 Vaccines in Liver Transplant Recipients: The Role of Immunosuppression Reduction (/2076-393X/10/11/1827)

by [Chih-Hsien Cheng](https://sciprofiles.com/profile/author/TFI0YmZnUDUvejcyWINiYWtidjUvWFdrTXdLTzhVv205a3IzNjh3aUNOVT0=) (<https://sciprofiles.com/profile/author/TFI0YmZnUDUvejcyWINiYWtidjUvWFdrTXdLTzhVv205a3IzNjh3aUNOVT0=>),

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[Wei-Chen Lee](https://sciprofiles.com/profile/613889) (<https://sciprofiles.com/profile/613889>)

*Vaccines* **2022**, *10*(11), 1827; <https://doi.org/10.3390/vaccines10111827> (<https://doi.org/10.3390/vaccines10111827>) - 29 Oct 2022

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**Abstract** Liver transplant recipients on chronic immunosuppression show an attenuated antibody response after SARS-CoV-2 vaccination. Adjusting immunosuppressants during vaccination remains debated. We enrolled 380 liver transplant recipients receiving 2 doses of a protein subunit, mRNA, or a vector vaccine. The patients were informed to [...]. [Read more.](#)

(This article belongs to the Special Issue [Antibody Response of Vaccines to SARS-CoV-2](#) ([/journal/vaccines/special\\_issues/vaccines\\_antibody](/journal/vaccines/special_issues/vaccines_antibody)))

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### Exploring Prime-Boost Vaccination Regimens with Different H1N1 Swine Influenza A Virus Strains and Vaccine Platforms (/2076-393X/10/11/1826)

by [Anna Parys](https://sciprofiles.com/profile/2437263) (<https://sciprofiles.com/profile/2437263>), [Elien Vandoorn](https://sciprofiles.com/profile/1231947) (<https://sciprofiles.com/profile/1231947>), [Accept](#) ([/accept\\_cookies](#))

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Kristien Van Reeth (<https://sciprofiles.com/profile/1197619>)

Vaccines 2022, 10(11), 1826; <https://doi.org/10.3390/vaccines10111826> (<https://doi.org/10.3390/vaccines10111826>) - 29 Oct 2022

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**Abstract** In a previous vaccination study in pigs, heterologous prime-boost vaccination with whole-inactivated H1N1 virus vaccines (WIV) induced superior antibody responses and protection compared to homologous prime-boost vaccination. However, no pan-H1 antibody response was induced. Therefore, to stimulate both local and systemic immune responses, [...] [Read more.](#)

(This article belongs to the Special Issue **Veterinary Vaccine Research at the Frontline of Vaccinology** ([/journal/vaccines/special\\_issues/vvrvf\\_vaccines](/journal/vaccines/special_issues/vvrvf_vaccines)))

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**Quantification of Antiviral Cytokines in Serum, Cerebrospinal Fluid and Urine of Patients with Tick-Borne Encephalitis in Croatia** (</2076-393X/10/11/1825>)

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Vaccines 2022, 10(11), 1825; <https://doi.org/10.3390/vaccines10111825> (<https://doi.org/10.3390/vaccines10111825>) - 29 Oct 2022

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**Abstract** Background: Tick-borne encephalitis virus (TBEV) is one of the most significant arboviruses affecting the human central nervous system (CNS) in Europe. Data on cytokine response in TBEV infection are limited. Methods: We analyzed the cytokine response in serum, cerebrospinal fluid (CSF) and urine [...] [Read more.](#)

(This article belongs to the Section **Clinical Immunology** ([/journal/vaccines/sections/Clinical\\_Immunology](/journal/vaccines/sections/Clinical_Immunology)))

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**Real-Time Monitoring of the Effectiveness of Six COVID-19 Vaccines against Laboratory-Confirmed COVID-19 in Hungary in 2021 Using the Screening Method** (</2076-393X/10/11/1824>)

by Judit K. Horváth (<https://sciprofiles.com/profile/author/T0xDQko0SzuQVIWShJXM2RqUFBqTihRS1RVSIFYN3hZZUk5VnAxc3ZKQk5YaHB4USs0W>),  
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**Abstract** Several studies have reported the waning effectiveness of COVID-19 vaccines. This study aims to demonstrate the applicability of the screening method for estimating vaccine effectiveness (VE) in a pandemic. We report VE in Hungary, estimated using the screening method, in 2021, covering the period from 11 October to 11 November 2021. [...] [Read more.](#)

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**Differences in Demographics of Vaccinees, Access to, and Satisfaction with SARS-CoV-2 Vaccination Procedures between German General Practices and Mass Vaccination Centers (/2076-393X/10/11/1823)**

by  [Anne Jentzsch \(https://sciprofiles.com/profile/2477386\)](https://sciprofiles.com/profile/2477386),

 [Anne-Kathrin Geier \(https://sciprofiles.com/profile/author/cCtITi9WM0ttZ3BPVFBGOVhaSG1abHpkMjhNU2lwcGZ4Z1INZVFTdEpKN3hCdGYwK1VL\)](https://sciprofiles.com/profile/author/cCtITi9WM0ttZ3BPVFBGOVhaSG1abHpkMjhNU2lwcGZ4Z1INZVFTdEpKN3hCdGYwK1VL)

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 [Anne Schrimpf \(https://sciprofiles.com/profile/2494360\)](https://sciprofiles.com/profile/2494360)

*Vaccines* **2022**, *10*(11), 1823; <https://doi.org/10.3390/vaccines10111823> (<https://doi.org/10.3390/vaccines10111823>) - 28 Oct 2022

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**Abstract** In the European Union, SARS-CoV-2 vaccines became available in December 2020. The vaccination campaign in Germany was initially implemented through mass vaccination centers and later joined by general practitioners (GPs) in spring 2021. This study compared population characteristics, perceived access barriers, and satisfaction [...] **Read more.**

(This article belongs to the Section [COVID-19 Vaccines and Vaccination \(/journal/vaccines/sections/COVID-19\\_vaccines\\_vaccination\)](#))

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**Digital Information Approach through Social Media among Gen Z and Millennials: The Global Scenario during the COVID-19 Pandemic (/2076-393X/10/11/1822)**

by  [Lorenzo Blandi \(https://sciprofiles.com/profile/2493194\)](https://sciprofiles.com/profile/2493194),  [Michela Sabbatucci \(https://sciprofiles.com/profile/1556054\)](https://sciprofiles.com/profile/1556054),

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*Vaccines* **2022**, *10*(11), 1822; <https://doi.org/10.3390/vaccines10111822> (<https://doi.org/10.3390/vaccines10111822>) - 28 Oct 2022




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**Abstract** An infodemic represents a concern for public health, influencing the general population's perceptions of key health issues. Misinformation is rapidly spread by social media, particularly among young generations. We used data from the WHO "Social Media and COVID-19" study, which was conducted in [...] **Read more.**

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**Evaluation of the Perceptions, Attitudes and Practices among Greek Non-Professional Athletes Visiting a Public Hospital during March 2022, towards COVID-19 Vaccination and Its Consequences on Sports Training and Sports Activity (/2076-393X/10/11/1821)**

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*Vaccines* 2022, 10(11), 1821; <https://doi.org/10.3390/vaccines10111821> (https://doi.org/10.3390/vaccines10111821), - 28 Oct 2022

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**Abstract** Sports have been majorly impacted by the COVID-19 pandemic. After the lockdown period, vaccination and protocols were implemented to return to normality. We aimed to assess the attitudes and practices related to COVID-19 vaccination among athletes, and to record adverse effects of vaccination, [...]

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by [Sachiko Kodera](https://sciprofiles.com/profile/248277) (https://sciprofiles.com/profile/248277), [Yuki Niimi](https://sciprofiles.com/profile/2483596) (https://sciprofiles.com/profile/2483596),

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*Vaccines* 2022, 10(11), 1820; <https://doi.org/10.3390/vaccines10111820> (https://doi.org/10.3390/vaccines10111820), - 28 Oct 2022

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**Abstract** The variability of the COVID-19 vaccination effectiveness (VE) should be assessed with a resolution of a few days, assuming that the VE is influenced by public behavior and social activity. Here, the VE for the Omicron variants (BA.2 and BA.5) is numerically derived [...]

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(This article belongs to the Special Issue [Real Life Experience of the COVID-19 Vaccine: What Do You Need to Know?](#) (/journal/vaccines/special\_issues/Real\_life\_vaccines))

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**Salivary Antibody Response of COVID-19 in Vaccinated and Unvaccinated Young Adult Populations** (/2076-393X/10/11/1819)

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*Vaccines* 2022, 10(11), 1819; <https://doi.org/10.3390/vaccines10111819> (https://doi.org/10.3390/vaccines10111819), - 28 Oct 2022

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**Abstract** COVID-19 is a terrible pandemic sweeping the whole world with more than 600 million confirmed cases and 6 million recorded deaths. Vaccination was identified as the sole option that could help in combatting the disease. In this study, SARS-CoV-2 antibodies were assessed in [...]

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*Vaccines* 2022, 10(11), 1818; <https://doi.org/10.3390/vaccines10111818> (<https://doi.org/10.3390/vaccines10111818>), - 28 Oct 2022  
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**Abstract** BACKGROUND: Vaccines against severe acute respiratory syndrome coronavirus 2 have shown effectiveness in the prevention of COVID-19. Breakthrough infections occur, and age has been shown to be one of the dominant risk factors for poorer outcome. This research focuses on characteristics of breakthrough [...]. [Read more.](#)

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**Abstract** Foot-and-mouth disease (FMD) is a serious disease affecting the global graziery industry. Once an epidemic occurs, it can lead to economic and trade stagnation. In recent decades, FMD has been effectively controlled and even successfully eradicated in some countries or regions through mandatory [...]. [Read more.](#)

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**Abstract** Zika virus (ZIKV), an emerging arthropod-borne flavivirus, was first isolated in Uganda in 1947 from monkeys and first detected in humans in Nigeria in 1952; it has been associated with a dramatic burden worldwide. Since then, interventions to reduce the burden of ZIKV [...]. [Read more.](#)

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## Article

# Geographic and Socioeconomic Inequalities in Delays in COVID-19 Vaccinations: A Cross-Sectional Study in Indonesia

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**Abstract:** Background: Previous studies have provided evidence of inequalities in the coverage of COVID-19 vaccination. However, evidence of such inequalities in delays in vaccinations is lacking. Our study examined the socioeconomic and geographic disparities in terms of days to get the first and second dose of COVID-19 vaccinations in Indonesia. Methods: We conducted a cross-sectional study using the WhatsApp messaging app and social media platforms during December 2021–February 2022. We distributed the questionnaire through our university network to reach all regions. We included 3592 adults aged 15+ years in our analysis. We used two main dependent variables: days to receive the first dose (after national vaccine rollout) and days to receive the second dose (after receiving the first dose). We examined a range of socioeconomic and geographic indicators, including education level, income level, formal employment, working in health facilities, being a health worker, and region. We controlled for sex, age, religion, and urbanicity. We performed multivariate logistic regressions in STATA 15. Results: Our findings show considerable delays in getting the first dose among participants (160.7 days or about 5.4 months on average) from Indonesia’s national COVID-19 vaccination rollout on 13 January 2021. However, we found a shorter period to receive the second dose after receiving the first dose (41.1 days on average). Moreover, we found significant socioeconomic (i.e., education, income, formal employment, working in health facilities, and being a health worker) and geographic (i.e., in and out of the Java region) inequalities in terms of delays in getting the first dose. However, we did not find significant inequalities in getting the second dose for most inequality indicators, except for working in health facilities. By region, we found that participants living in more deprived areas (out of the Java region) received the second dose 4.9 days earlier. One of the study’s key limitations is that there may be an inherent bias with respect to socioeconomic factors since it was conducted online (web-based). Conclusions: While there were considerable delays in getting the first dose, especially among those of a lower socioeconomic status and those in more deprived areas, the waiting time for the second dose was relatively similar for everyone once they were in the system. Effective efforts to address inequalities are essential to ensuring the effectiveness of the national COVID-19 vaccination rollout.



**Citation:** Megatsari, H.; Kusuma, D.; Ernawaty, E.; Putri, N.K. Geographic and Socioeconomic Inequalities in Delays in COVID-19 Vaccinations: A Cross-Sectional Study in Indonesia. *Vaccines* **2022**, *10*, 1857. <https://doi.org/10.3390/vaccines10111857>

Academic Editors: Valentina Baccolini, Giuseppe Migliara and Giuseppe La Torre

Received: 9 August 2022

Accepted: 1 November 2022

Published: 2 November 2022

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**Keywords:** COVID-19; vaccine; geographic; socioeconomic; inequality; SDGs

## 1. Background

The World Health Organization declared COVID-19 as a pandemic more than two years ago, on 11 March 2020. Since then, there have been over 507 million confirmed cases and over 6.2 million deaths reported globally by 25 April 2022 [1]. The pandemic has

disrupted people's day-to-day lives, the economy, and domestic and international travel. Many countries were forced to apply extreme measures by restricting people's movement (lockdowns) to reduce community transmissions. The pandemic has pressured healthcare services, especially hospitals with an overcapacity of COVID-19 patients and public health systems with massive testing, contact tracing, and other preventative measures [2,3].

The global race to create COVID-19 vaccines that was initiated and fast-tracked throughout 2020 was soon successful in obtaining approvals in some countries. Less than ten months into the pandemic, the United Kingdom started the COVID-19 vaccine campaign in December 2020 using the Pfizer vaccine and in January 2021 using the AstraZeneca vaccine [4,5]. Since then, many countries began the race to fully vaccinate (including the first and second doses of the Pfizer or AstraZeneca vaccines) their entire population, starting with the population groups with the highest risk of infection, such as health workers, and those with the highest risk of dying, such as elderly and immunocompromised residents [6].

Clinical trials have shown that COVID-19 vaccines are effective in protecting individuals, and real-world population studies have shown that COVID-19 vaccines protect against death and severe illness and even reduce disease transmission [7,8]. However, there are socioeconomic and geographic inequalities in the coverage of COVID-19 vaccination between countries, which may reduce vaccine effectiveness globally [9]. The proportion of people with at least one vaccine dose in the least deprived areas (e.g., 68.3% in Europe) was 3.2 times higher than that in the most deprived areas (e.g., 21.3 in Africa) [10]. Similarly, the proportion of people that have been fully vaccinated in high-income countries was 5.2 times higher than that in low-income countries (79.5% vs. 15.2%, respectively) as of 25 April 2022 [11]. Such socioeconomic and geographic inequalities also exist within countries. A study in Italy found that residents with a high school degree had an odds ratio of 1.29 of not getting vaccinated compared with those with a university degree [12]. Similarly, a study in the UK found that Black residents, who are generally poorer, were 2.4 times more likely to be unvaccinated than their White counterparts [13].

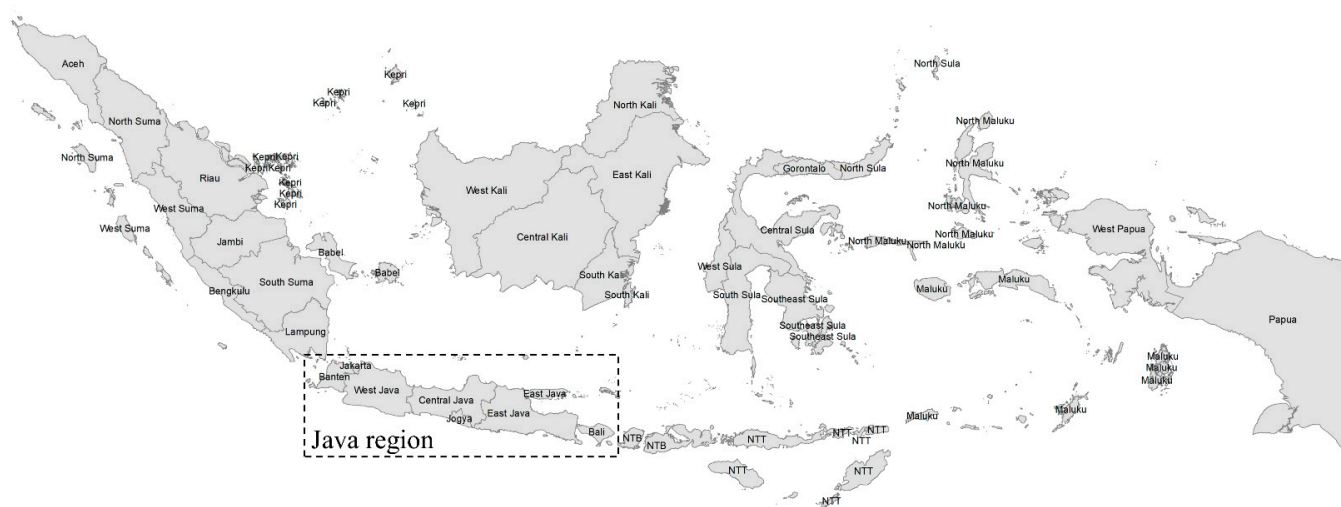
In addition to inequalities in coverage, an analysis of inequalities in delays in vaccination (i.e., days to get the first and second dose) is also essential to inform the intensity of the delays. While previous studies have provided evidence of inequalities in the coverage of COVID-19 vaccination [12–20], evidence of socioeconomic and geographic inequalities in delays in vaccinations is lacking. As more and more countries introduce plans for living with COVID-19 [21], a better understanding of such inequalities will help in the efforts toward equal access to COVID-19 vaccines for all. Thus, our study aims to examine the socioeconomic and geographic disparities in terms of days to getting the first and second doses of COVID-19 vaccinations in Indonesia.

## 2. Methods

### 2.1. Study Setting

Indonesia, a low- and middle-income country (LMIC) in the Southeast Asia region, is the fourth largest country, with a population of over 270 million. It is also an archipelago with five big islands and thousands of smaller inhabited islands (see Figure 1). Both factors contribute to more challenges in providing diagnostic, preventive, and curative health services for diseases, including during the COVID-19 pandemic. There have been over 6 million confirmed cases of COVID-19, with over 156,000 deaths reported as of 21 April 2022 [1]. Like other countries, the pandemic has also put extreme pressure on the country's health system, which is still navigating through a major health financing reform with the introduction of a single-payer system in 2014 [22]. From January 2021, the government started mass vaccination by targeting young working people first, unlike most other countries, which began with the elderly and the most vulnerable [23]. In August 2021, the government started the booster vaccinations program, targeting the country's 1.5 million health workers. From January 2021, as cases increased due to the Omicron variant, the government kicked off its booster drive for the general public by

first prioritizing the elderly and immunocompromised residents [6]. By 21 April 2022, 198.6 million people (71.9% of the population) have received at least one vaccination, and 163.4 million people (59.1%) have received full vaccinations [11].



**Figure 1.** Map of Indonesia. Note: Suma = Sumatera, Kepri = Riau Islands, Sula = Sulawesi, Kali = Kalimantan, NTB = West Nusa Tenggara, NTT = East Nusa Tenggara. The Java region includes provinces in the Java and Bali islands (shown in the box). Those outside the Java region include provinces in the islands of Sumatera, Kalimantan, Sulawesi, Maluku, Nusa Tenggara, and Papua. The Java region is the most developed in the country. The authors obtained the shapefile from the Indonesian Information and Geospatial Agency and created the map in ArcMap 10.

## 2.2. Study Design and Sample

We conducted a cross-sectional study on the geographic and socioeconomic inequalities in terms of how long (in days) it takes to receive COVID-19 vaccination in Indonesia. We collected data through the WhatsApp messaging app and other social media platforms during December 2021–February 2022. Using the Survey Monkey platform, we provided a short questionnaire link to those who agreed to be study participants. To help with the response rate, we indicated that it would take approximately five minutes in the survey invitation. Additionally, we mentioned a small incentive of IDR 5000 (~USD 0.34) to compensate for internet data usage. Our short questionnaire was adapted from the COVID-19 vaccine collaborative study conducted by the Indonesian Technical Advisory Group on Immunization (ITAGI), Ministry of Health, World Health Organization, and UNICEF [24].

In terms of sampling, the target population included five provinces, including East Java, DKI Jakarta, North Sumatra, South Sulawesi, and Papua. The minimum sample size to detect 29% vaccine coverage (i.e., national figure mid 2021) with a margin of error of 5% and a 95% confidence interval was 320 individuals, rounded off to 500 individuals due to potential non-response. By stratifying male/female, the minimum sample per province is 1000 individuals. In total, we initially targeted 5000 individuals from the five provinces.

To ensure national reach, we distributed the questionnaire link through our network of universities in all regions, including Java, Sumatra, Kalimantan, Sulawesi, Maluku, Nusa Tenggara, and Papua. We received a total of 4416 responses by the end of February 2022—an 88.3% response rate, compared to our initial target. However, because of various reasons (e.g., unwillingness to participate, missing responses, and being unvaccinated), our final analysis included 3592 participants who have received at least one dose of the vaccine and have valid answers for the month/year of receiving the first and second doses. Our inclusion criteria were males or females who are 15+ years of age and who have received at least one COVID-19 vaccination.

### 2.3. Dependent Variables

We used two main dependent variables: days to receive the first dose (after the national vaccine rollout) and days to receive the second dose (after receiving the first dose). In the survey, we asked for the month and year of receiving each dose. We did not ask for the date to reduce recall bias and help shorten the questionnaire. In creating the dependent variable, we assigned 15 as the date. We calculated the number of days to receive vaccines by subtracting each vaccine date from 13 January 2021, the start of the COVID-19 vaccine rollout in the country led by President Joko Widodo [25].

### 2.4. Independent Variables

We examined a range of socioeconomic and geographic indicators. The primary independent variables included education level, income level, formal employment, working in health facilities, being a health worker, and region. Educational levels included high school or lower, diplomas and bachelor's degrees, and postgraduate degrees. Income levels included five groups of monthly income ranging from IDR <2 million (~USD 140) to IDR 10+ million (~USD 700). Formal employment included civil servants, government-linked company employees, private employees, and self-employed entrepreneurs. Health workers included doctors, dentists, nurses/midwives, and other health professionals. The region included those in and out of the Java region, which includes Bali, hosts the country's national capital (Jakarta city), and is the most developed region in Indonesia. Those out of the Java region included Sumatra, Kalimantan, Sulawesi, Maluku, Nusa Tenggara, and Papua (Figure 1). We controlled for other independent variables, including sex (female/male), age group, being elderly (60+ years), religion (e.g., Islam, Hinduism, Buddhism, Christianity, Protestantism, Kong Hu Chu), and urbanicity (cities and regencies defined as urban and rural areas, respectively).

### 2.5. Data Analysis

In addition to descriptive statistics on sample characteristics, we conducted bivariate and multivariate Ordinary Least Squares (OLS) regressions in STATA 15 to examine the socioeconomic and geographic inequalities in terms of days to getting the first and second dose of COVID-19 vaccinations. For the subgroup analyses, we conducted regressions by sex (female vs. male) and region (in vs. out of Java). All statistical significances were at the 5% level or lower.

## 3. Results

Table 1 shows the descriptive statistics of the sample characteristics. In terms of characteristics (Panel A), out of the 3592 participants in our analysis, 72.6% were female. By age, the participants were grouped into 15–20 years (23.3%), 21–24 years (21.5%), 25–29 years (19.4%), 30–41 years (18.2%), and 42–76 years (17.7%). Of the participants, 2.0% were elderly (aged at least 60 years). Regarding education level, 43.1%, 44.5%, and 12.4% of the participants had a high school education or lower, diplomas or bachelor's degrees, and postgraduate degrees, respectively. With regard to income, nearly one-third (31.2%) of the participants had an income below IDR 2 million (~USD 140), and 12.1% had an income of at least IDR 10 million (~USD 700). In terms of employment, 47.6% of participants were employed, with 18.2% and 8.6% reported as working in health and educational facilities, respectively. Of the participants, 21.6% were health workers such as doctors, dentists, nurses, and other health professionals. By region, 52.3% of the participants resided in urban areas (i.e., cities), and 56.9% lived in the Java region. Of the participants, 87.9% reported being fully vaccinated, including the first and second doses (Panel B). For the outcome variables (Panel C), the average number of days to receive the first dose was 160.7 days (about 5.4 months) from the start of the national vaccine rollout (13 January 2021). Additionally, the number of days to receive the second dose was 41.1 days after the first dose was received.

**Table 1.** Sample characteristics.

	n	%
(a) Basic characteristics (n, %)		
Female	2609	72.6%
Age		
15–20 years	836	23.3%
21–24 years	772	21.5%
25–29 years	695	19.4%
30–41 years	653	18.2%
42–76 years	636	17.7%
Elderly	70	2.0%
Education		
High school or lower	1548	43.1%
Diploma or bachelor's degree	1599	44.5%
Postgraduate degree	445	12.4%
Monthly income		
IDR < 2 million	1121	31.2%
2–4 million	860	23.9%
4–6 million	640	17.8%
6–10 million	536	14.9%
10+ million	435	12.1%
Employed	1708	47.6%
Work in health facilities	653	18.2%
Work in educational facilities	310	8.6%
Health workers	776	21.6%
Married	1561	43.5%
Muslim	3246	90.4%
Urban area	1877	52.3%
Java region	2043	56.9%
(b) Vaccination coverage (n, %)		
Had COVID-19 vaccine: 1 dose	3592	100.0%
Had COVID-19 vaccine: 2 doses	3157	87.9%
(c) Outcome variables (mean, SD)		
Days to receive the first dose (after the vaccine rollout started)	160.7	87.8
Days to receive the second dose (after the first dose was received)	41.1	37.9
N, %	3592	

Note: N/n = sample, IDR = Indonesian Rupiah. Elderly = 60+ years old (local definition). Employed includes civil servants, government-linked company employees, private employees, and self-employed entrepreneurs. Health workers include doctors, dentists, nurses/midwives, and other health professionals. Muslims include those who follow Islam; other religions include Hinduism, Buddhism, Christianity, Protestantism, and Kong Hu Chu. Urban areas include cities; rural areas include regencies/districts. The Java region includes Bali; other regions include Sumatra, Kalimantan, Sulawesi, Maluku, Nusa Tenggara, and Papua.

Table 2 shows bivariate analyses of socioeconomic and geographic inequalities in terms of days to receive the first and second doses of COVID-19 vaccinations. Negative values in the differences between the highest and lowest subgroups (columns 2 and 4) show fewer days to receive a vaccine (i.e., earlier). In terms of getting the first dose, on average, it took 202.6 days to receive the first dose for participants with a high school education or lower and 110.7 days for those with postgraduate degrees (columns 1–2). In terms of the difference, those with postgraduate degrees, the highest education group, received the first dose 91.9 days (about 3.1 months) earlier than those with a high school education or lower, the lowest education group. Similarly, those with the highest income level (IDR 10+ million) received the first dose 72.3 days (about 2.4 months) earlier than those with the lowest income level (IDR < 2 million). Those with formal employment, those who worked in health facilities, and health professions received the first dose 60.8 days (2.0 months), 106.3 days (3.5 months), and 97.8 days (3.3 months) earlier than others. By region, the participants who lived in the Java region received the first dose 25.2 days earlier

than those out of the Java region. All these differences (inequalities) were statistically significant at the 5% level.

**Table 2.** Bivariate analysis of inequalities in days to receive first and second doses of the COVID-19 vaccine.

	Days to Receive First Dose		Days to Receive Second Dose	
	Mean	Difference (High-Low)	Mean	Difference (High-Low)
	(1)	(2)	(3)	(4)
Education				
High school or lower	202.6	−91.9 *	43.1	−2.7
Diploma and bachelor's degree	134.0		39.4	
Postgraduate degree	110.7		40.4	
Monthly income				
IDR < 2 million	192.4	−72.3 *	42.0	−0.1
2–4 million	159.1		41.7	
4–6 million	149.4		41.2	
6–10 million	143.4		37.2	
10+ million	120.1		41.9	
Employed				
No	185.7	−60.8 *	41.3	−0.5
Yes	124.9		40.8	
Work in health facilities				
No	180.0	−106.3 *	42.5	−7.6 *
Yes	73.7		34.9	
Health workers				
No	181.8	−97.8 *	42.4	−6.1 *
Yes	84.0		36.3	
Region				
Outside Java	175.0	−25.2 *	38.6	4.3 *
Java	149.8		42.9	

Note: Diff = Difference, High = Highest, Low = Lowest, IDR = Indonesian Rupiah. Negative values show a fewer number of days to receive the vaccine. Formally employed includes civil servants, government-linked company employees, and private employees. Health workers include doctors, dentists, nurses/midwives, and other health professionals. The Java region includes Bali; other regions include Sumatra, Kalimantan, Sulawesi, Maluku, Nusa Tenggara, and Papua. \* = statistical significance level \*  $p < 0.05$  estimated in bivariate Ordinary Least Squares regressions in STATA 15.

In terms of getting the second dose (after receiving the first dose), on average, those with the highest education and income level received the second dose 2.7 days and 0.1 days earlier than those with the lowest groups, respectively. Those with formal employment, those who worked in health facilities, and health professionals received the second dose 0.5 days, 7.6 days, and 6.1 days earlier, respectively, relative to others. Those living in Java received the second dose 4.3 days later than others. Only the differences (inequalities) in terms of working in health facilities, health professionals, and regions were statistically significant at the 5% level.

Table 3 shows the multivariate analyses of socioeconomic and geographic inequalities in terms of days to receive the first dose of COVID-19 vaccinations. Negative coefficients show fewer days to receive vaccinations by comparing each variable's highest and lowest categories. The inequalities in terms of days to receive the first dose were relatively lower after controlling for all independent variables, but they were still statistically significant. Participants in the highest education and income groups received the first dose 30.1 days and 24.4 days earlier than those in the lowest groups, respectively. Those with formal employment, those who worked in health facilities, and health professionals received the first dose 21.1 days, 50.7 days, and 33.4 days earlier, respectively, relative to others. Those living in Java received the first dose 14.7 days earlier than others. All these differences (inequalities) were statistically significant at the 5% level.

**Table 3.** Socioeconomic and geographic inequalities in days to receive the COVID-19 vaccine: first dose.

Variables	Total		Female		Male		Java Region		Outside Java	
	Coef	95%CI	Coef	95%CI	Coef	95%CI	Coef	95%CI	Coef	95%CI
	(1)		(2)		(3)		(4)		(5)	
Female	1.9	(−3.5, 7.4)					−1.3	(−8.3, 5.7)	7.0	(−1.7, 15.7)
Age										
15–20 years										
21–24 years	3.1	(−4.6, 10.9)	2.7	(−5.9, 11.2)	4.0	(−14.0, 22.1)	−1.7	(−12.5, 9.1)	6.2	(−5.2, 17.6)
25–29 years	−8.8	(−18.6, 0.9)	−9.1	(−20.1, 1.8)	−6.4	(−28.3, 15.6)	−10.7	(−23.7, 2.2)	−9.1	(−24.7, 6.4)
30–41 years	−20.9 *	(−32.3, −9.5)	−23.1 *	(−35.8, −10.3)	−5.2	(−31.4, 20.9)	−30.5 *	(−45.0, −16.0)	−7.6	(−26.8, 11.6)
42–76 years	−40.6 *	(−52.6, −28.5)	−41.2 *	(−55.1, −27.4)	−24.3	(−50.6, 1.9)	−47.0 *	(−61.9, −32.1)	−31.7 *	(−53.0, −10.3)
Elderly	−10.6	(−28.4, 7.2)	−19.6	(−53.4, 14.1)	−9.3	(−32.6, 14.0)	−9.6	(−29.0, 9.8)	−15.8	(−57.8, 26.2)
Education										
High school/less										
Diploma/bachelor	−24.8 *	(−31.7, −17.8)	−25.4 *	(−33.5, −17.3)	−20.7 *	(−34.5, −6.8)	−28.4 *	(−37.1, −19.7)	−18.8 *	(−30.6, −7.1)
Postgraduate	−30.1 *	(−40.1, −20.2)	−33.1 *	(−44.9, −21.2)	−24.2 *	(−42.9, −5.6)	−36.7 *	(−49.0, −24.4)	−20.7 *	(−37.7, −3.6)
Income in IDR										
<2 million										
2–4 million	−5.6	(−12.2, 0.9)	−3.0	(−10.4, 4.4)	−14.5 *	(−28.7, −0.3)	−7.1	(−15.8, 1.7)	−4.6	(−14.6, 5.5)
4–6 million	−9.2 *	(−16.6, −1.9)	−7.8	(−16.1, 0.5)	−16.0 *	(−31.7, −0.3)	−9.0	(−18.5, 0.6)	−9.4	(−21.1, 2.2)
6–10 million	−11.3 *	(−19.2, −3.4)	−11.7 *	(−20.8, −2.7)	−13.8	(−29.9, 2.3)	−10.2	(−20.7, 0.3)	−14.3 *	(−26.4, −2.2)
10+ million	−24.4 *	(−33.2, −15.7)	−27.1 *	(−37.2, −17.0)	−24.3 *	(−42.0, −6.7)	−22.3 *	(−32.9, −11.8)	−28.3 *	(−44.7, −12.0)
Formally employed	−21.1 *	(−27.4, −14.7)	−21.6 *	(−29.1, −14.0)	−16.1 *	(−28.3, −3.9)	−25.6 *	(−33.4, −17.8)	−14.2 *	(−25.1, −3.3)
Work in health facilities	−50.7 *	(−60.1, −41.3)	−57.4 *	(−68.3, −46.5)	−35.6 *	(−54.5, −16.6)	−38.4 *	(−49.7, −27.0)	−71.2 *	(−87.7, −54.7)
Work in educ facilities	6.1	(−3.6, 15.9)	5.6	(−5.6, 16.8)	4.5	(−15.6, 24.6)	8.7	(−4.2, 21.6)	1.2	(−13.9, 16.3)
Health workers	−33.4 *	(−42.4, −24.5)	−31.4 *	(−41.8, −21.1)	−36.6 *	(−54.6, −18.5)	−38.3 *	(−49.5, −27.2)	−25.3 *	(−40.4, −10.2)
Married	21.0 *	(13.7, 28.2)	26.7 *	(18.8, 34.7)	−4.3	(−22.2, 13.6)	24.7 *	(15.8, 33.7)	12.8 *	(0.4, 25.2)
Muslim	12.9 *	(5.0, 20.9)	15.0 *	(5.3, 24.6)	9.5	(−5.0, 24.0)	9.8	(−0.9, 20.6)	16.4 *	(4.4, 28.4)
Urban	−3.1	(−7.9, 1.7)	−2.9	(−8.5, 2.6)	−2.4	(−12.2, 7.4)	−6.7 *	(−12.9, −0.4)	−1.3	(−9.0, 6.4)
Java region	−14.7 *	(−19.6, −9.8)	−16.3 *	(−21.8, −10.7)	−11.5 *	(−21.8, −1.2)				
Constant	207.6 *	(197.1, 218.2)	208.1 *	(196.8, 219.4)	210.3 *	(189.8, 230.8)	205.3 *	(190.8, 219.8)	195.0 *	(179.5, 210.5)
N	3592		2609		983		2043		1549	

Note: N = sample, IDR = Indonesian Rupiah, Coef = Coefficients (negative values show a fewer number of days to receive the vaccine), CI = Confidence interval (shown in parentheses), NA = Not Applicable, Ref = Reference. Elderly = 60+ years old. Formally employed includes civil servants, government-linked company employees, and private employees. Health workers include doctors, dentists, nurses/midwives, and other health professionals. Muslims include those who follow Islam; other religions include Hinduism, Buddhism, Christianity, Protestantism, and Kong Hu Chu. Urban areas include cities; rural areas include regencies/districts. The Java region includes Bali; other regions include Sumatra, Kalimantan, Sulawesi, Maluku, Nusa Tenggara, and Papua. Significance level \*  $p < 0.05$ .



By sex, the inequalities in terms of days to receive the first dose were relatively larger among females for all socioeconomic and geographic indicators, except for being a health professional. For instance, female and male participants in the highest education group received the first dose 33.1 and 24.2 days earlier, respectively, relative to those in the lowest education group. Female and male participants in the highest income group received the first dose 27.1 and 24.3 days earlier, respectively, relative to those in the lowest income group. Female and male participants working in health facilities received the first dose 57.4 and 35.6 days earlier, respectively, relative to others. Female and male participants living in Java received the first dose 16.3 and 11.5 days earlier, respectively, relative to others. In contrast, female and male health workers received the first dose 31.4 and 36.6 days earlier, respectively, relative to others.

By region, the patterning is mixed, with relatively larger inequalities in Java for some indicators (e.g., education, formal employment, and health workers) and smaller inequalities for others (e.g., income, worked in health facilities). Participants in the highest education group in and out of Java received the first dose 36.7 and 20.7 days earlier, respectively, relative to those in the lowest education group. In and out of Java, those with formal employment received the first dose 25.6 and 14.2 days earlier, respectively, relative to others. In and out of Java, those in health professions received the first dose 38.3 and 25.3 days earlier, respectively, relative to others. In contrast, those in the highest income group in and out of Java received the first dose 22.3 and 28.3 days earlier, respectively, relative to those in the lowest income group.

Table 4 shows the multivariate analyses of socioeconomic and geographic inequalities in terms of days to receive the second dose of COVID-19 vaccinations. Negative/positive coefficients show fewer/more days to receive vaccinations by comparing each variable's highest and lowest categories. The inequalities in terms of days to receive the second dose were not statistically significant in terms of education, income, formal employment, and health professions. However, those who worked in health facilities received the second dose 7.9 days earlier and those living in Java received the second dose 4.9 days later compared to others (statistically significant at the 5% level). By subgroup, the inequalities in terms of working in health facilities were larger among females (9.7 and 4.3 days earlier for female and male participants, respectively) and those out of the Java region (5.3 and 12.6 days earlier for in and out of Java, respectively). Additionally, the inequalities by region were slightly larger among males (4.6 and 5.5 days earlier for female and male participants, respectively).

**Table 4.** Socioeconomic and geographic inequalities in days to receive the COVID-19 vaccine: second dose.

Variables	Total		Female		Male		Java Region		Outside Java	
	Coef	95%CI	Coef	95%CI	Coef	95%CI	Coef	95%CI	Coef	95%CI
	(1)		(2)		(3)		(4)		(5)	
Female	−0.7	(−3.4, 2.0)					−1.4	(−5.1, 2.2)	0.3	(−3.8, 4.4)
Age										
15–20 years										
21–24 years	0.1	(−3.8, 4.0)	1.7	(−2.5, 6.0)	−5.3	(−14.5, 3.9)	1.3	(−4.3, 6.9)	0.5	(−5.1, 6.0)
25–29 years	−3.1	(−8.0, 1.9)	−2.5	(−8.0, 3.0)	−4.8	(−16.1, 6.5)	0.9	(−5.9, 7.6)	−5.7	(−13.2, 1.9)
30–41 years	1.2	(−4.5, 7.0)	2.6	(−3.7, 9.0)	−1.2	(−14.8, 12.4)	5.6	(−2.0, 13.2)	−3.1	(−12.4, 6.1)
42–76 years	2.6	(−3.5, 8.7)	4.7	(−2.3, 11.6)	−0.6	(−14.2, 12.9)	5.1	(−2.7, 12.9)	1.7	(−8.6, 12.0)
Elderly	−3.9	(−13.0, 5.2)	−14.2	(−31.9, 3.5)	−1.5	(−13.4, 10.5)	−0.0	(−10.3, 10.3)	−18.6	(−39.4, 2.1)
Education										
High school/less										
Diploma/bachelor	−1.1	(−4.7, 2.5)	−1.7	(−5.8, 2.4)	0.0	(−7.3, 7.3)	−0.3	(−4.9, 4.3)	−2.1	(−7.8, 3.6)
Postgraduate	−1.5	(−6.4, 3.5)	−3.2	(−9.1, 2.6)	0.3	(−9.4, 10.1)	−4.4	(−10.8, 2.0)	3.4	(−4.8, 11.5)
Income in IDR										
<2 million										
2–4 million	0.6	(−2.7, 3.9)	0.1	(−3.6, 3.8)	2.4	(−4.9, 9.7)	−1.1	(−5.6, 3.4)	2.5	(−2.3, 7.3)
4–6 million	−0.8	(−4.4, 2.9)	0.3	(−3.7, 4.4)	−3.8	(−11.9, 4.3)	−2.4	(−7.3, 2.6)	1.0	(−4.4, 6.4)
6–10 million	−4.6 *	(−8.6, −0.7)	−7.1 *	(−11.6, −2.6)	0.7	(−7.4, 8.8)	−5.2	(−10.6, 0.2)	−4.8	(−10.5, 0.9)
10+ million	−1.0	(−5.3, 3.3)	−3.9	(−8.8, 1.0)	4.8	(−4.0, 13.7)	−0.1	(−5.5, 5.3)	−4.9	(−12.5, 2.7)
Formally employed	2.6	(−0.6, 5.7)	2.5	(−1.2, 6.2)	4.8	(−1.4, 11.0)	0.9	(−3.1, 4.9)	5.3 *	(0.1, 10.4)

Table 4. Cont.

Variables	Total		Female		Male		Java Region		Outside Java	
	Coef	95%CI	Coef	95%CI	Coef	95%CI	Coef	95%CI	Coef	95%CI
	(1)		(2)		(3)		(4)		(5)	
Work in health facilities	-7.9 *	(-12.5, -3.3)	-9.7 *	(-14.9, -4.5)	-4.3	(-14.1, 5.4)	-5.3	(-11.1, 0.5)	-12.6 *	(-20.4, -4.9)
Work in educ facilities	-1.3	(-6.1, 3.5)	-4.4	(-9.8, 1.1)	7.0	(-3.1, 17.1)	-1.8	(-8.4, 4.8)	-1.5	(-8.7, 5.6)
Health workers	-0.4	(-4.8, 4.0)	0.7	(-4.3, 5.7)	-3.6	(-12.9, 5.7)	-1.3	(-7.0, 4.4)	0.5	(-6.6, 7.6)
Married	-1.8	(-5.5, 1.8)	-1.4	(-5.4, 2.5)	-3.8	(-13.1, 5.6)	-4.1	(-8.8, 0.6)	1.4	(-4.5, 7.3)
Muslim	-5.5 *	(-9.4, -1.5)	-3.0	(-7.7, 1.7)	-10.8 *	(-18.1, -3.4)	-9.5 *	(-15.0, -3.9)	-1.4	(-7.1, 4.2)
Urban	0.1	(-2.3, 2.5)	1.4	(-1.4, 4.1)	-3.3	(-8.3, 1.6)	1.6	(-1.6, 4.8)	-3.0	(-6.6, 0.7)
Java region	4.9 *	(2.5, 7.4)	4.6 *	(1.9, 7.3)	5.5 *	(0.3, 10.7)				
Constant	46.5 *	(41.2, 51.8)	43.4 *	(37.8, 49.0)	52.0 *	(41.6, 62.4)	54.6 *	(47.1, 62.0)	43.2 *	(35.8, 50.6)
N	3102		2261		841		1794		1308	

Note: N = sample, IDR = Indonesian Rupiah, Coef = Coefficients (negative values show a fewer number of days to receive the vaccine), CI = Confidence interval (shown in parentheses), NA = Not Applicable, Ref = Reference. Elderly = 60+ years old. Formally employed includes civil servants, government-linked company employees, and private employees. Health workers include doctors, dentists, nurses/midwives, and other health professionals. Muslims include those who follow Islam; other religions include Hinduism, Buddhism, Christianity, Protestantism, and Kong Hu Chu. Urban areas include cities; rural areas include regencies/districts. The Java region includes Bali; other regions include Sumatra, Kalimantan, Sulawesi, Maluku, Nusa Tenggara, and Papua. Values were estimated in Ordinary Least Squares regression in STATA 15. Statistical significance level \*  $p < 0.05$ .

#### 4. Discussion

Our findings show considerable delays in getting the first dose among participants (160.7 days or about 5.4 months on average) from the start of Indonesia’s national COVID-19 vaccination rollout on 13 January 2021. However, we found a shorter period to receive the second dose after receiving the first dose (41.1 days on average). Moreover, we found significant socioeconomic (i.e., education, income, formal employment, working in health facilities, and being a health worker) and geographic (i.e., in and out of the Java region) inequalities in terms of delays in getting the first dose. However, we did not find significant inequalities in getting the second dose for most inequality indicators, except for working in health facilities. By region, we even found that participants living out of the Java region received the second dose 4.9 days earlier.

We found that participants in the highest education and income groups received the first dose 30.1 days and 24.4 days earlier than those in the lowest groups. Moreover, those with formal employment received the first dose 21.1 days earlier than those without formal employment. To our knowledge, there are currently no previous studies to compare. However, our findings align with previous studies on the inequalities in COVID-19 vaccination coverage. For instance, a study in Italy found that those in the lowest education group had an odds ratio of 1.29 of not getting vaccinated compared with those with a university degree [12]. Additionally, another study in the UK showed that Black residents, who were generally poorer, were 2.4 times more likely to be unvaccinated [13]. In terms of the comparison of the delays in vaccination, our findings align with previous studies on the inequalities in child vaccination delays. A study in the UK found that routine child vaccination delay was pronounced for the 40% most deprived population [26]. Another study from sub-Saharan Africa found that inequalities in vaccination delay in terms of household wealth, place of residence, and education existed in most countries [27].

Our findings found that those working in health facilities and professions received the first dose 50.7 days and 33.4 days earlier, respectively, relative to others. This was due to the national policy to prioritize those working in health facilities and health workers being among the first group to receive COVID-19 vaccinations. This was in line with the World Health Organization’s recommendation to prioritize groups at the highest risk of exposure to infection in each country, including health workers [28].

However, in terms of getting the second dose, we did not find significant inequalities for most inequality indicators. This means that while there were considerable delays in getting the first dose, especially if someone was of a lower socioeconomic status or lived

in more deprived areas, the waiting time for the second dose was relatively similar for everyone once they were in the system. Moreover, we also found that participants living in the more deprived areas (i.e., out of the Java region) received the second dose earlier. This may be due to the large number of people that needed to be vaccinated in the Java region (including Bali province), where over half of the country's population lives.

There are several factors that may contribute to the geographic and socioeconomic inequalities in terms of delays in getting the COVID-19 vaccine: vaccine unavailability, a lack of information, and vaccine hesitancy. In terms of unavailability, the government reported in August 2021 that the areas with the least availability were all outside of Java/Bali, including Sumatera, Kalimantan, and the Maluku and Papua regions [29]. In terms of the lack of information, a study in Hong Kong found that Chinese adults with a higher socioeconomic status had higher eHealth literacy and sought more web-based information on COVID-19. The two factors were found to be associated with a high adherence to the guidelines for preventive behaviors during the pandemic [30]. In terms of hesitancy, the evidence is mixed. A global study of 20 countries (including Indonesia) in early 2021 showed that hesitancy towards COVID-19 vaccines was associated with higher education, being employed, and lower income [31]. Moreover, political persuasion may impact vaccination penetration, but the time between vaccination is less impacted by politics.

For policy, our findings provide evidence for the government and policymakers in Indonesia and other LMICs with similar settings to reduce socioeconomic and geographic inequalities in delays of COVID-19 vaccinations. All LMICs struggled to implement successful mass COVID-19 vaccination programs during the pandemic. Given the archipelagic setting, the government and policymakers have additional challenges with the huge population distributed unequally in all regions, including thousands of inhabited islands. Additionally, since comprehensive vaccination against COVID-19 could reduce these inequalities arising out of the pandemic, further efforts to reach lower socioeconomic groups are essential [12].

The government in Indonesia and other LMICs need to make various efforts to increase complete vaccination coverage for all (universal), especially among vulnerable groups such as the elderly, those with medical conditions associated with a higher risk for severe COVID-19, and health workers. They also need to ensure the equal distribution of vaccination coverage to all groups, especially those from low socioeconomic groups (pro-poor). In the United Kingdom, for example, NHS England provided additional financial support to increase the uptake of COVID-19 vaccines among ethnic minorities and low socioeconomic groups [32]. In addition, local government agencies and local community organizations helped through training and health promotion to ensure that messages reached the community, helpline numbers, working with youth groups, and social media campaigns to fight anti-vaccination campaigns [33]. In the United States, activities included building trust, conducting outreach, and working with influential religious organizations in certain community groups [33].

Our study has at least two limitations. First, given the restrictions on movement and gathering during the pandemic, our survey was conducted online (web-based), which may have an inherent bias with respect to socioeconomic factors and limits the population representativeness of our findings [34–37]. Compared to the population census 2020, some characteristics of our study participants are similar (e.g., proportion of participants in the Java region), but some are not (e.g., our sample had a higher proportion of females and a lower proportion of older adults) [38]. Second, because a cross-sectional study design was employed, our results show associations, not causality. Regardless of these limitations, our findings have important policy implications for Indonesia and other LMICs with similar settings.

## 5. Conclusions

In Indonesia, we found considerable delays in getting the first dose among the study participants—160.7 days, on average, from the national COVID-19 vaccination rollout on 13 January 2021. We found a shorter period to receive the second dose—41.1 days, on average, from receiving the first dose. We found significant socioeconomic (i.e., education, income, formal employment, working in health facilities, and being a health worker) and geographic (i.e., in and out of the Java region) inequalities in terms of delays in getting the first dose. However, we did not find significant inequalities in getting the second dose for most inequality indicators, except for working in health facilities. By region, we found that participants living in more deprived areas (out of the Java region) received the second dose 4.9 days earlier. Effective efforts to address inequalities are essential to ensuring the effectiveness of the national COVID-19 vaccination rollout.

**Author Contributions:** D.K., H.M. and E.E. conceived the study. H.M., E.E. and N.K.P. conducted the data collection and cleaning. D.K. conducted the data analyses and drafted the manuscript. H.M., E.E. and N.K.P. provided input to the manuscript. All authors have read and agreed to the published version of the manuscript.

**Funding:** This paper was funded by Universitas Airlangga International Research Collaboration Scheme 2021, Number 7502/UN3.1.10/PT/2021. The funder had no role in the study design, data collection and analysis/interpretation, or preparation of the manuscript.

**Institutional Review Board Statement:** Universitas Airlangga, Faculty of Dental Medicine Health Research Ethical Clearance Commission. Number: 039/HRECC.FODM/II/2022.

**Informed Consent Statement:** Informed consent was obtained from all subjects involved in the study.

**Data Availability Statement:** Available from the authors upon reasonable request.

**Conflicts of Interest:** The authors declare no conflict of interest.

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