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Article

Forgotten "Primum Non Nocere" and Increased Mortality after Covid-19 Vaccination

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Abstract: Background. The main impetus behind the worldwide Covid-19 vaccination campaign in 2021 was to reduce the mortality attributed to SARS-CoV-2 infection in the preceding year. Nevertheless, rigorous analyses of the mortality benefits conferred by this massive vaccination effort have been lacking. Methods Statistics offers us an essential methodological approach for measuring the impacts of Covid-19 vaccination on public health. The mathematical relation between vaccinated-alive groups can be repeated between vaccinated-dead groups with relatively high statistical reliability because of the large population numbers involved. This method also confers greater statistical usefulness because it eliminates the Simpson effect. Results Calculations were performed for each of the following five(5) four-week intervals: weeks 35-38 (2021), weeks 39-42 (2021), weeks 43-46 (2021), weeks 47-50 (2021), and weeks 51(2021)-2(2022). The results obtained confirm that the mortality of the vaccinated coronavirus-infected groups was 14.5% higher on average than the mortality of non-vaccinated coronavirus-infected groups. Conclusions Vaccinated infected groups appear to have higher average mortality than their non-vaccinated infected counterparts. The findings suggest the legitimacy of extending the statistics between vaccinated living and vaccinated dead individuals for different age groups. Calculating the impact of Covid-19 vaccination on the mortality rate is a necessary step towards satisfying the first principle of medicine: "Primum non nocere", "Do no harm".

Keywords: Covid-19 vaccination; death rate; sick status days

1. Introduction

The main public health rationale for the worldwide Covid-19 vaccination in 2021 was to reduce the largescale mortality that had been attributed to widespread infection by the novel coronavirus, SARS-CoV-2, beginning in the spring of 2020. The central research question to be answered in this paper is whether the Covid-19 vaccinations are saving more lives from Covid-19 infection, or whether these vaccinations are causing excess deaths due to lethal adverse events following the inoculation. In theory, Covid-19 vaccination should markedly reduce the number of Covid-19-related deaths in comparison to Covid-19-related deaths among the unvaccinated. Indeed, theoretical research published in 2021 estimated that Covid-19 vaccination will reduce the mortality rate [1]. The public health argument for ongoing vaccinations is based largely on this assertion.

Soon after the vaccination campaign began, however, many medical professionals argued that infection by the coronavirus would provide sufficient natural immunity to afford sufficient protection against subsequent infectious diseases in the form of Covid-19. Gazid and colleagues demonstrated that natural infection by SARS-CoV-2 confers antiviral adaptive immunity superior to that afforded by Covid-19 vaccination [2]. Furthermore, the healthcare workers expressed a logical, evidence-informed concern that the

Covid-19 vaccination, which was being mandated for hospital personnel in many countries, might lead to adverse outcomes for individuals previously infected by SARS-CoV-2. These concerns can be traced back to as early as 2012 when laboratory mice developed severe pulmonary immunopathology after being vaccinated and then exposed to the SARS coronavirus [3]. A decade later, other mouse data linked the mRNA lipid nanoparticle-based Covid-19 vaccine platform to the phenomena of adaptive immune cell exhaustion and non-responsiveness, both secondary to the chronic stimulation of immune-inflammatory pathways [4].

Well-designed human studies to address the question of a combined impact of coronavirus infection and subsequent Covid-19 vaccination are lacking. However, a recent study by Otto and colleagues concluded that Covid-19 infection can cause severe disease and death in vaccine recipients, particularly in older adults and those with comorbidities [5]. Given the fact that SARS-CoV-2 viral variants are highly transmissible and have already infected the majority of the population in westernized countries, such concerns regarding the combined impact of natural infection and subsequent vaccinations could have serious public health implications, particularly in light of ongoing Covid-19 booster campaigns worldwide.

Analyses of the clinical trial risks of vaccine-associated adverse effects provide additional support for an undesirable impact on mortality. In a secondary analysis of serious adverse events (SAEs) reported in the placebo-controlled group, phase III randomized clinical trials of the mRNA Covid-19 vaccines, the authors found a 36% higher risk of SAEs in the Pfizer vaccine group versus the placebo group, with 18 additional SAEs per 10,000 vaccinated [6]. The SAEs included death and various life-threatening conditions, notably ischemic stroke, brain hemorrhage, and acute coronary syndrome. Notably, for both the Pfizer and Moderna clinical trials, the excess risk of SAEs was two to four times higher than the risk reduction for Covid-19 hospitalization. Most of these SAEs are relatively common events. Given the short follow-up observation periods for these trials, these risk estimates may be considered conservative.

Given these findings and concerns, it seems imperative that the medical-scientific community devotes more attention to assessing the mortality risks resulting from the impact of Covid-19 vaccination in populations with prior or concurrent SARS-CoV-2 infection based on a positive PCR test result. Estimations of the number of Covid-19 deaths are, from an epidemiological perspective, relatively straightforward and unhampered by the complications of morbidity estimates. With population-wide mortality as an outcome, there are no major confounders or "hidden variables" that could influence the results because, in free-living populations exposed to SARS-CoV-2 and occupying similar geographic regions, vaccinated and unvaccinated persons are living under the same general conditions, the same sets of risk factors evenly distributed. Vaccinated and non-vaccinated persons in a given region are consuming similar diets and are exposed to other similar environmental variables, notably air, and water.

Differences in the distribution of SARS-CoV-2 infection between those who have been vaccinated and those who have not been vaccinated are negligible [7]. Moreover, Covid-19 is spreading at a similar rate between unvaccinated and vaccinated: the apparent impact of vaccination on community transmission of circulating variants of the coronavirus was not significantly different from the impact among unvaccinated people [8]. For these reasons, population-wide data on vaccination status for individuals of different age groups living in the same geographic region should be able to provide meaningful data on the mortality-related effects of the vaccines in the context of SARS-CoV-2 infection. These epidemiological considerations enable us to perform a rigorous analysis of the

impact of largescale Covid-19 vaccination on the mortality rate of vaccinated versus non-vaccinated groups.

2. Methods and Results

For the purposes of the analysis, people who are living in a given region (state or country) may be designated as "alive". In this group, we can further delineate "vaccinated" from "unvaccinated" persons. As people are dying within a given time frame, we can then also estimate total deaths and include subsets based on vaccination status.

Therefore, to assess the impact of vaccination on the mortality rate, we employ the following equation:

$$\frac{\text{vaccinated(A)}}{\text{total alive(B)}} = \frac{\text{dead vaccinated}(A^*)}{\text{total deaths } (B^*)}$$
 (1).

We calculate the proportional number of dead vaccinated as follows:

dead vaccinated proportional number
$$A^* = \frac{\text{vaccinated (A)*total deaths}(B^*)}{\text{total alive(B)}}$$
 (2).

The proportional number for a given time period should always be larger than the statistical estimate of dead vaccinated, the product obtained from the calculation. In this case, vaccines are saving lives. If the proportional number is smaller than the statistical number, however, vaccines are increasing the death rate. This calculation should be done for each month of the year 2021 for five age groups: up to 20 years, from ages 20 to 40, from ages 40 to 60, from ages 60 to 80, and above age 80. In this way, the statistical problem known as the Simpson Effect (or Yule-Simpson Paradox, whereby an association between two variables in a population emerges, disappears or reverses when the population is divided into subpopulations) is excluded.

For the rigorous mathematical evaluation of Covid-19 vaccine efficacy, a recent BMJ editorial advocates the use of row data [9]. We can calculate the exact impact on the entire population in a given country and worldwide by utilizing data on how many deaths occurred in a given four-week period have been at least once vaccinated (referred to by some authors as "ever vaccinated"). This would allow calculating the proportional number of "dead vaccinated" and comparing it with the actual statistical calculation of the number of dead vaccinated people.

Corporations and government agencies have provided useful data for this purpose. For each company or governmental agency, we can calculate the effectiveness of the Covid-19 vaccination by comparing the days of work with the sick status days in percentage in a given month or year are as follows:

Working days of vaccinated workers in one month............. 100%

Sick days of vaccinated workers in one month...... X%

$$X\% = \frac{N_{sick \ days \ of \ vaccinated \ workers*100}}{N_{working \ days \ of \ vaccinated \ workers}} \tag{3}$$

Working days of nonvaccinated workers in one month........... 100%

Sick days of nonvaccinated workers in one month.............. Y%

$$Y\% = \frac{N_{sick days of nonvaccinated workers*100}}{N_{working days of nonvaccinated workers}}$$
(4).

For a given company, we can easily see which percentage of sick days is higher. Let's imagine we have a company with 100 employees, 50% of whom are vaccinated, and 50% of whom are not vaccinated. Vaccinated workers are protected from Covid-19, and should have a much smaller percentage of sick days than nonvaccinated workers. According to the Covid-19 vaccination doctrine percentage of sick days should be much smaller in the vaccinated group of people than in the non-vaccinated group of people.

It should be noted that neonatal mortality has emerged as another factor contributing to changes in population mortality rate. In Slovenia and worldwide, we observe highly increased rates of neonatal mortality in 2022 compared to the previous years. The first check that should be done in this context is the possible influence of Covid-19 vaccination. The number of neonatal deaths X_D is the sum of the following numbers:

$$X_D = X_6 + X_5 + X_4 + X_3 + X_2 + X_1 + X_0 (5),$$

where X_6 is the number of neonatal deaths where both parents are each three times vaccinated, where X_5 is the number of neonatal deaths where one parent is three times vaccinated, and another parent is two times vaccinated (and so on), where X_0 is the number of neonatal deaths where both parents have not been vaccinated. Using this model, we could see possible relations with the Covid-19 vaccination. EMA, VAERS, and the Yellow card reports on high numbers of vaccines' side effects [10,11,12] are alarming bells for detailed analysis proposed in this article.

The proposed statistical analysis presented in this paper can verify the theoretical study of how many lives were saved by the vaccines in a particular country not only for ages above 60 but for the entire population.

2.1. Calculations of the death rate of the infected vaccinated group and infected non-vaccinated group using official data of the UK HEALTH SECURITY AGENCY

In the calculations, we compare the sample A/B of the entire population with the sample A^*/B^* in the dead group of persons.

$$\frac{vaccinated (A)}{alive(B)} = \frac{vaccinated dead(A^*)}{total dead(B^*)}$$
(1)

Formula (1) is valid for statistics involving large sample sizes and provides precise results. As medical authorities are hiding the vaccination status of most dead persons A^* , this is not feasible at this time. We can, however, obtain official data in England about the infected dead group B^{*1} and write following equation:

$$\frac{vaccinated\ dead(A^*)}{dead(B^*)} = \frac{infected\ vaccinated\ dead(A^{*1}) + noninfected\ vaccinated\ dead(A^{*2})}{infected\ dead(B^{*1}) + noninfected\ dead(B^{*2})}$$
(6)

The problem is that for non-infected vaccinated dead A^{*2} , we have no data because medical authorities are not allowing public access to information on vaccination status of dead persons.

Taking in account that vaccines do not impact on mortality, the subgroup A^{*1} and subgroup B^{*1} have the same rate of mortality. When both groups would be persons of different ages, let's say in the subgroup A^{*1} most persons would be under 40 years and in the subgroup B^{*1} most persons would be above 40 years, the Simpson effect could occur. This is not the case in both groups the age distribution is very similar and Simpson's effect is excluded.

Taking into account that vaccines do not impact on mortality, the subgroup A^{*2} and subgroup B^{*2} have the same rate of mortality. Producers of the vaccines are declaring that effectiveness of vaccines is around 95% which means that the groups A^{*1} , A^{*2} , B^{*1} ,

and B^{*2} have very similar mortality rates, that is within the value of 5%, so we write the following equation:

$$\frac{A^{*1}}{B^{*1}} \approx \frac{A^{*2}}{B^{*2}} \tag{7}.$$

Out of (7) follows:

$$\frac{vaccinated(A)}{alive(B)} = \frac{vaccinated\ dead(A^*)}{dead(B^*)} = \frac{infected\ vaccinated\ dead(A^{*1})}{infected\ dead(B^{*1})} = \frac{noninfected\ vaccinated\ dead(A^{*2})}{noninfected\ dead(B^{*2})}$$
(8).

Out of (8) follows equation:

$$\frac{vaccinated(A)}{alive(B)} = \frac{infected\ vaccinated\ dead(A^{*1})}{infected\ dead(B^{*1})} \tag{9}.$$

The impact of the Covid-19 virus on the death rate in group A^{*1} and in group B^{*1} is the same. The proportional numbers A^{*1} obtained in all five of the 28-day time periods are always smaller than the statistical numbers. This provides strong proof that vaccines are increasing the death rate. The statistics pertain to a short time span (four weeks, 28 days); therefore the time variable cannot significantly influence the results. In group A^{*1} and in group B^{*1} , people could die because of some unknown reasons. Both groups were living under the same living conditions, so some other cause of death would have the same impact on both groups.

In population statistics for England, we obtained data for the number of infected vaccinated dead and data of infected dead B^{*1} . Using equation (9), we calculated the proportional number of infected vaccinated dead A^{*1} and compared it with the statistical number of actual infected vaccinated dead. Thus, we obtained the decreased or increased mortality rate (percentage) associated with or likely attributed to vaccination. The proportional number A^{*1} is the number indicating no impact of vaccination on the death rate. When 10% of the population is vaccinated in the group of SARS-CoV-2-infected dead persons B^{*1} , 10% will be vaccinated. When 20% of the population is vaccinated in the group of SARS-CoV-2 infected dead persons B^{*2} , 20% will be vaccinated, and so on. When 100% of the population is vaccinated in the group of SARS-CoV-2 infected dead persons B^{*2} , 100% will be vaccinated.

Now we will compare the numbers of SARS-CoV-2 infected vaccinated dead persons in official statistics with the SARS-CoV-2 infected vaccinated deaths proportional number A^{*1} . The statistical number of SARS-CoV-2 infected vaccinated dead persons must be lower than the proportional number A^{*1} In that case, vaccines would be saving people's lives. We can then calculate how many SARS-CoV-2 infected persons have been saved from death with vaccination for a given 4-week period, using the following equation:

saved lives =
$$A^{*1}$$
 - SARS-CoV-2 infected vaccinated deaths in statistics (10)

In this case, the statistical number of SARS-CoV-2 infected vaccinated dead is bigger than the proportional number A^{*1} , and therefore vaccination has a negative impact on mortality rate. In other words, the vaccination is stealing more lives than it saves, i.e., more people have died prematurely because of getting vaccinated than would have occurred had they chosen not to get vaccinated:

lost lives = SARS-CoV-2 infected vaccinated deaths in statistics $-A^{*1}$ (11)

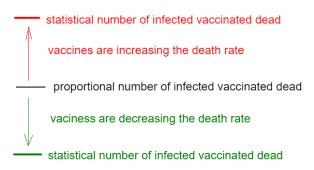


Figure 1: Comparing proportional number with statistical number

2.2. The calculation for weeks 35-38 in year 2021

Homogeneous distribution of all age groups can be seen in data source. Below is the table from the UK data source [13]. We can see that most of the vaccinated is elderly population. We calculate covid infected vaccinated deaths $A^{*1} = 2447$ by summing colons "Received one dose" and "Second dose". We calculate $B^{*1} = 3165$ by summing colon "Total".

COVID-19 vaccine surveillance report - week 39

Table 4. COVID-19 deaths (a) within 28 days and (b) within 60 days of positive specimen or with COVID-19 reported on death certificate, by vaccination status between week 35 and week 38 2021

(a)

Death within 28 days of positive COVID-19 test by date of death between week 35 and week 38 2021	Total	Unlinked*	Not vaccinated	Received one dose (1-20 days before specimen date)	Received one dose, ≥21 days before specimen date	Second dose ≥14 days before specimen date	Rates among persons vaccinated with 2 doses (per 100,000)	Rates among persons not vaccinated (per 100,000)
Under 18	6	2	4	0	0	0	0.0	0.0
18-29	20	1	15	0	0	4	0.1	0.4
30-39	42	1	30	0	0	11	0.2	1.0
40-49	92	3	52	0	7	30	0.5	3.1
50-59	251	5	125	0	12	109	1.5	12.2
60-69	419	4	121	0	21	273	4.8	22.4
70-79	804	4	151	0	26	623	13.4	61.2
80+	1,531	10	189	1	43	1,288	50.1	149.4

Table 1: Covid infected vaccinated deaths between weeks 35 and 38

A "vaccinated" person in this calculation is the person that was vaccinated with the first dose or more. Let's calculate the proportional number of dead vaccinated in England between weeks 35 and 38. In this time frame, there were 3165 Covid-19 deaths in the United Kingdom; 2448 of those persons had been vaccinated [13]. We see that the percentage of vaccinated UK people with one dose in this period is 65.1%. In 2021 the population of the United Kingdom was 56,191,000 people. 65.1% of the entire population is 36,580,300 people.

proportional number =
$$\frac{36.580.300 * 3165}{56.191.000}$$
proportional number = 2060.

Officially declared vaccinated Covid dead persons between 35 and 38 weeks are 2447. covid infected vaccinated deaths declared = 2447.

This means that 2448 - 2060 = 387 persons had prematurely passed away due to the vaccination in the period of week 35 - 38.

lost lives =
$$2447 - 2060 = 387$$

2.3. The calculation for weeks 39 - 42, 2021

COVID-19 vaccine surveillance report - week 43

Table 3. COVID-19 cases presenting to emergency care (within 28 days of a positive specimen) resulting in an overnight inpatient admission by vaccination status between week 39 and week 42 2021

Cases presenting to emergency care (within 28 days of a positive test) resulting in overnight inpatient admission, by specimen date between week 39 and week 42 2021	Total	Unlinked*	Not vaccinated	Received one dose (1-20 days before specimen date)	Received one dose, ≥21 days before specimen date	Second dose ≥14 days before specimen date¹
Under 18	633	17	592	12	11	1
18-29	324	8	212	2	28	74
30-39	708	10	446	2	47	203
40-49	991	14	495	5	40	437
50-59	1,139	13	447	1	46	632
60-69	1,177	12	288	3	33	841
70-79	1,642	1	195	3	34	1,409
≥80	1,724	2	157	0	38	1,527

Table 2: Covid infected vaccinated deaths between week 39 in week 41

Let's calculate the proportional number of dead vaccinated in England between weeks 39 and 42. In this period there were 2772 covid deaths in the UK. 2270 of them have been vaccinated [13]. We see that the percentage of vaccinated people in the UK with one dose in this period is 66.1% [13]. The population of the UK was 56.191.000 people in 2021. 66.1% of the entire population is 37.142.200 people.

proportional number =
$$\frac{37.142.200 * 2772}{56.191.000}$$

proportional number = 1832.

Officially declared vaccinated covid dead persons between 39 and 42 weeks are 2270. covid infected vaccinated dead declared = 2270.

This means that 2270 - 1832 = 438 persons had prematurely passed away due to the vaccination in the period weeks 39 - 42:

lost lives =
$$2270 - 1832 = 438$$

2.4. The calculation for weeks 43-46, 2021

Death within 28 days of positive COVID-19 test by date of death between week 43 and week 46 2021	Total**	Unlinked*		Received one dose (1-20 days before specimen date) Information below in fees figures	Received one dose, ≥21 days before specimen date	Second dose ≥14 days before specimen date¹ orrect interpretation
Under 18	9	1	8	0	0	
Olidei 10	9		0	0	U	0
18-29	13	0	9	0	2	2
		0		0	2	2
18-29	13	1 3	9	0 0	4	2 11 46
18-29 30-39	13 44	0 1 3 5	9 28	0 0 0	4 4 11	
18-29 30-39 40-49	13 44 104	0 1 3 5	9 28 51	0 0 0	2 4 4 11 18	46
18-29 30-39 40-49 50-59	13 44 104 250		9 28 51 108	0 0 0 0 0 1		46 126

Table 3: Covid infected vaccinated deaths between week 43 in week 46

Let's calculate the proportional number of dead vaccinated in England between weeks 43 and 46. In this four-week period, there were 3726 covid deaths in the UK. 2992 of them have been vaccinated [13]. We see that the number of vaccinated people in England in this period with the first dose is 67.4% [13]. The population of the UK was 56.191.000 people in 2021. 67.4% of the entire population is 37.872.700 people. We use equation (7) and we get:

proportional number =
$$\frac{37.872.700 * 3726}{56.191.000}$$

proportional number = 2511.

Officially declared vaccinated covid dead persons between 43 and 46 weeks are 2992. covid infected vaccinated deaths declared = 2992.

This means that 2992 - 2511 = 481 persons had prematurely passed away due to the vaccination in the period weeks 43 - 46:

lost lives =
$$2992 - 2511 = 481$$

2.5. The calculation for weeks 47-50, 2021

COVID-19 vaccine surveillance report - week 51

Table 10. COVID-19 deaths (a) within 28 days and (b) within 60 days of positive specimen or with COVID-19 reported on death certificate, by vaccination status between week 47 and week 50 2021 Please note that corresponding rates by vaccination status can be found in <u>Table 11</u>.

a)						
Death within 28 days of positive COVID-19 test by date of death between week 47 and week 50 2021	Total**	Unlinked*	Not vaccinated	Received one dose (1-20 days before specimen date)	Received one dose, ≥21 days before specimen date	Second dose ≥14 days before specimen date¹
			of the	ese figures]		
Under 18	4	0	3	0	0	1
18-29	14	0	9	0	1	4
30-39	53	0	43	0	1	9
40-49	113	3	60	0	4	46
50-59	244	5	116	1	10	112
60-69	453	5	141	0	9	298
70-79	725	8	169	1	22	525
≥80	1,350	13	241	4	37	1,055

Table 4: Covid infected vaccinated deaths between week 47 in week 50

Let's calculate the proportional number of dead vaccinated in England between weeks 47 and 50. In this period there were 2956 covid deaths in the UK. 2140 of them have been vaccinated [13]. By 19 December 2021, the overall vaccine uptake in the UK for dose 1 was 68.2%, see page 3 COVID-19 vaccine surveillance report – week 51[13]. The population of the UK was 56.191.000 people in 2021. 68.2.% of the entire population is 38.322.200 people. We use equation (7) and we get:

proportional number =
$$\frac{38.322.200 * 2956}{56.191.000}$$

proportional number = 2016.

Officially declared vaccinated covid dead persons (one dose or more) between 47 and 50 weeks are 2140.

covid infected vaccinated deaths declared = 2140

This means that 2140 - 2016 = 124 persons had prematurely passed away due to the vaccination in the period weeks 47 - 50:

lost lives =
$$2140 - 2016 = 124$$

2.6. The calculation for weeks 51, 2021 - 1, 2022

Table 11. COVID-19 deaths (a) within 28 days and (b) within 60 days of positive specimen or with COVID-19 reported on death certificate, by vaccination status between week 50 2021 and week 1 2022

Death within 28 days of positive COVID-19 test by date of death between week 50 2021 and week 1	Total**	Unlinked*	Not vaccinated	Received one dose (1 to 20 days before specimen date)	Received one dose, ≥21 days before specimen date	Second dose ≥14 days before specimen date
2022	[These data	should be interp	elow in footnote about the correct			
Under 18	8	0	8	0	0	0
18 to 29	23	0	15	0	0	8
30 to 39	64	0	37	0	3	24
40 to 49	115	2	69	0	5	39
50 to 59	263	2	116	1	15	129
60 to 69	499	10	181	0	21	287
70 to 79	715	6	196	2	35	476
80 or over	1 487	11	302	4	44	1 126

Table 5: Covid infected vaccinated deaths between week 51 (2021 and week 1 (2022)

Let's calculate the proportional number of dead vaccinated in England between week 51, 2021 and week 1, 2022. In this period there were 3893 covid deaths in the UK. 2878 of them have been vaccinated. By 16 January 2022, the overall vaccine uptake in England for dose 1 was 68.9%, see page 3 [13]. The population of the UK was 56.191.000 people in 2021. 68.9.% of the entire population is 38.322.200 people. We use equation (4) and we get:

proportional number =
$$\frac{38.715.500 * 3893}{56.191.000}$$

proportional number = 2682.

Officially declared vaccinated covid dead persons (one dose or more) between week 52, 2021 and week 2, 2022 are 2878.

coronavirus – infected (test – positive) vaccinated deaths declared = 2878

This means that 2878 - 2682 = 196 persons had prematurely passed away due to the vaccination in the period weeks 47 - 50:

$$lost lives = 2878 - 2682 = 196$$

Below we have the results of all calculated periods:

weeks 35-38: total coronavirus-infected deaths are 3165, number of covid infected vaccinated deaths is 2448, number of dead because of heavy adverse effects caused by vaccination is 388 which is 15% of coronavirus-infected vaccinated deaths

weeks 39-42: total coronavirus-infected deaths are 2772, number of covid infected vaccinated deaths is 2270, number of dead because of heavy adverse effects caused by vaccination is 438 which is 19% of coronavirus-infected vaccinated deaths

weeks 43-46: total covid infected deaths are 3726, number of covid infected vaccinated deaths is 2992, number of dead because of heavy adverse effects caused by vaccination is 481 which is 16% of coronavirus-infected vaccinated deaths

weeks 47-50: total coronavirus-infected deaths are 2956, number of covid infected vaccinated deaths is 2140, number of dead because of heavy adverse effects caused by vaccination is 124 which is 6% of coronavirus-infected vaccinated deaths

weeks 51(2021)-2(2022): total coronavirus-infected deaths are 3893, number of covid infected vaccinated deaths is 2878, the number of dead because of heavy adverse effects caused by vaccination is 196 which is 7% of coronavirus-infected vaccinated deaths.

In 20 weeks, the total number of deaths among persons who had tested positive for SARS-CoV-2 infection was 16.505. The total number of the Covid-19 test-positive vaccinated deaths is 12.728. The total number of deaths because of heavy adverse effects caused by vaccination is 1627 persons. This means in the group of Covid-test positive vaccinated deaths which is 12.728 persons, 12.8% have died because of heavy adverse effects. By including all time periods in the calculation, we will have a more comprehensive estimate.

The total number of deaths of the Covid-19 test positive people that died in 20 weeks was 12.728. The total proportional number of vaccinated infected people that died was 11.101. Thus, in the group of test-positive vaccinated deaths, there was a 14.5% higher rate of mortality than in the group of covid positive unvaccinated considering vaccines would not have any influence on the death rate. Our data indicate that infected vaccinated persons have a 14.5% higher probability of dying (ostensibly from prior or concurrent Covid-19 infection, or vaccination, or both) than infected unvaccinated persons.

According to the official narrative, vaccines are saving lives, which means the number of coronavirus-infected vaccinated deaths statistically recorded should be significantly lower than the proportional calculated number of the coronavirus-infected vaccinated deaths. As shown in Table 1, our results indicate that the opposite is true. The statistical number of the coronavirus-infected vaccinated deaths is significantly higher than the calculated proportional number of coronavirus-infected vaccinated deaths, which means that infected vaccinated people are dying at a higher rate than their infected unvaccinated counterparts, presumably because of adverse effects of the vaccines themselves.

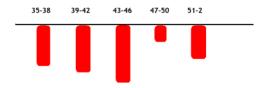


Figure 2: Obtained results

2.7. Evaluation of obtained results

In principle, the gene-based Covid-19 vaccines (mRNA vaccines and adenovirus vector vaccines) were designed to significantly decrease the number of deaths associated with SARS-CoV-2 infection when compared to the number of deaths among infected unvaccinated persons. However, the present analysis points to a net negative benefit in terms of mortality reduction. Based on UK population data at five 28-day intervals in 2021-2022, we found that infected vaccinated persons have a 14.5% higher probability of dying than infected unvaccinated persons.

Our findings are limited in scope but of major statistical relevance. The proposed statistical approach offers a highly reliable estimate of how the Covid-19 vaccination campaign has been impacting the mortality rate for entire populations, apparently adding in a major way to deaths attributed to Covid-19. The relation between the "vaccinated coronavirus-infected deaths" and "non-vaccinated coronavirus-infected deaths" in a short four-week period is a statistically viable measure of the unfavourable impacts of these immunizations on Covid-19 mortality. Based on the rules of statistics, if we were to calculate the relationship between the proportional and real number of vaccinated Covid-19 deaths for all other time periods, we would not expect to see results that contradict the present findings. We are therefore inclined to propose that Covid-19 vaccines are causing lethal adverse effects. It seems reasonable to surmise that such impacts on mortality are not only relevant to England but also to other countries where the vaccines have been adopted on a massive scale.

To widen the scope of this research, we could calculate the mortality impacts on the entire population in England and worldwide. This would require data on how many people who died in a given four-week period have been at least once vaccinated (or ever vaccinated). This would allow calculating the proportional number of "dead vaccinated" and comparing it with the actual statistical number of deaths. Because the proposed calculation might be difficult to understand for medical professionals, here is an example: Let's imagine that in a given country, in January 2024, we will place a red bracelet on the hands of 30% of the entire population. In every age group, exactly 30% of people will have red bracelet. We follow a number of deaths in the ensuing months and see that exactly 30% dead people in each age group will have a red bracelet. This is how statistics work out when applied to large population sizes. We can imagine that Covid-19 vaccine is a red bracelet and has no impact on the health of the vaccinated person. On this plausible supposition, we calculate a proportional number of deaths. Comparing the proportional number of deaths with the real statistical number of deaths shows us the real impact of vaccination on the population death rate.

Calculation of the impact of Covid-19 vaccination on increased mortality is so straightforward that it could be done by anyone with middle-school mathematics ability who has an interest in assessing and monitoring the mortality impact. Most of the published statistics pertaining to Covid-19 vaccine effectiveness are avoiding this calculation because of immense pressures on the medical profession to hide the disastrous results of the vaccination program; however, it is only a matter of time before the truth is revealed. Human society is evolving rapidly and will not support the unbearable falsehoods concerning how Covid-19 vaccines are impacting human lives.

In this simple effective calculation, the entire population of a given country is divided into five age groups: 0-20 years, 21 to 40 years, 41 to 60 years, 61 to 80

years, and over 80 years. Each age group (total number – TN) consists of two subgroups: vaccinated subgroup (VA) and unvaccinated subgroup (UN):

$$TN = VA + UN$$
 (8)

where **TN** stands for all people in a particular group, **VA** stands for vaccinated persons and **UN** stands for unvaccinated persons. A certain number of people die each month in each age group:

$$D = Dva + Dun$$

where **D** means all dead people in a certain age group, **Dva** means dead vaccinated people and **Dun** means unvaccinated dead people. Unvaccinated people are not protected from the deadly virus Covid-19 and therefore should die in greater numbers. The calculation of mortality expressed in percentage in the vaccinated subgroup in a certain age group for each month is calculated as follows:

mortality in percentage of vaccinated subgroup: 100Dva / VA.

The calculation of the mortality in percentage in the unvaccinated subgroup in a certain age group for each month is as follows:

mortality in percentage of unvaccinated subgroup: 100Dun / UN.

For each month, it is possible to accurately calculate the mortality of the vaccinated subgroup in a certain age group and the mortality of the unvaccinated subgroup within a certain age group. Avoiding these calculations is avoiding the fact that Covid-19 vaccination has done major harm to public health worldwide. Carrying out these calculations on a monthly basis and informing the medical community and general public about them is the main obligation of every medical journal. A simple calculation at the end of each monthly report would provide a concise updated analysis of the Covid-19 vaccination impact on the mortality rate for that particular month. Such calculations would reveal the true impact of Covid-19 vaccinations. This must be done immediately in order to preserve the first principle of medicine: "Primum non nocere".

The results obtained by the present analysis would seem to reinforce the findings of Tojersen and colleagues, who reported that the Covid-19 vaccinations have led to increased death rates among the elderly population [14,15]. A report from the insurance company OneAmerica is similarly discouraging, with actual data from the latter half of 2021 indicating an unprecedented 40 percent increase in death rates for individuals aged 18 to 64 when compared to the pre-pandemic period [16]. According to the company's CEO, this represented the highest mortality rate in the history of insurance records, which entail extensive death data collection annually. Previous largescale catastrophes had increased death rates by no more than 10 percent [16]. It seems increasingly clear that Covid-19 vaccination programs are not living up to the "safe and effective" terms they had promised to the general public.

Other concerning data come from German public health authorities showing that "sudden death of unknown cause" increased dramatically in the past two years. In 2021 and 2022, according to official German statistics, approximately 14,800 people died, compared to an annual average of only 1,600 people in the previous five years [17]. According to analyses from the Paul Ehrlich Institute, these "sudden death of

unknown cause" increased by about 560% in 2021 and 2022 over previous years [18]. These data are sounding off alarms that something went terribly wrong with the public health response to Covid-19.



Figure 3: Increase of sudden death cause unknown in Germany in 2021 and 2022

Data from Slovenia's National Institute of Public Health (NIJZ) are also ringing alarm bell. Pulmonary embolism increased by about 36% from 2021 to 2022. In that same two-year period, chronic myocarditis increased by about 65%, while viral pneumonia increased by about 149% [18].

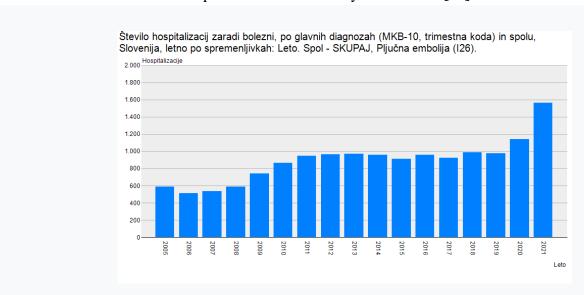


Figure 4: Increase of pulmonary embolism in 2021

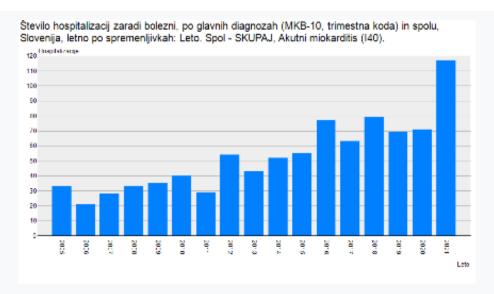


Figure 5: Increase of chronic myocarditis in 2021

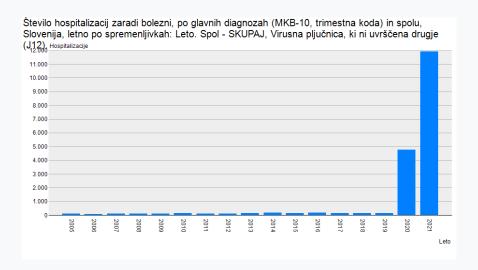


Figure 6: Increase of viral pneumonia in 2021

The status of the vaccination of these patients is not publicly known, which makes it impossible to calculate the exact impact of Covid-19 vaccination on the increase of these diseases. Despite several calls of researchers from different fields, NIJZ is keeping these data confidential. It is unprecedented that a scientific organization of public health is hiding data that could prove the danger of a given medical treatment. In the lives of people in Slovenia, the only big change of life in 2021 was massive Covid-19 vaccination, so the vaccines represent the most logical candidate for the increased morbidity and mortality. Only when the data become publicly available will we be able to carry out calculations of exact percent of patients that were vaccinated.

3. Numbers of vaccination are coinciding with the numbers of death rate

Below is the official statistics of excess mortality for November 2022 for European countries.

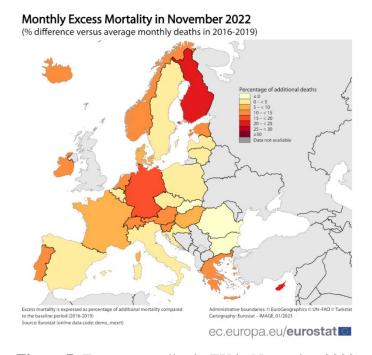


Figure 7: Excess mortality in EU in November 2022

"Excess mortality rates continued to vary across the EU Member States. All Member States registered increases in excess mortality, except for Romania (-6%), Bulgaria (-3%) and Slovakia (-2%), which recorded no excess deaths. Italy recorded few excess deaths, with its rate standing at +0.5%. After these Member States, the next lowest rates were recorded in Belgium and Lithuania (both +1%), Sweden (+2%), and Poland and Spain (both +3%), all less than half of the EU average. The most affected countries in November 2022 were Cyprus and Finland, which recorded excess mortality rates of +24% and +21%, respectively. Germany also recorded a high rate of +16%" [19].

Calculations on the 14.5% excess mortality rate are supported by official data of the EU, which confirm that excess mortality is higher in countries where the percentage of vaccination is higher. In general, we can see, the higher the percentage of vaccination in a given country, the higher is the excess mortality. We could have a better overview if we would have data on excess mortality for the entire year 2022 per given country.

Country	Death rate	Percentage of vaccinated with at least one dose
Romania	- 6%	42%
Bulgaria	- 3%	30%
Slovakia	- 2%	48%
Lithuania	+ 1%	70%
Belgium	+ 1%	81%
Latvia	+ 1.3%	70%
Sweden	+ 2%	76%
Spain	+ 3%	88%
Poland	+ 3%	60%
Hungary	+ 6.7%	66%
Swiss	+ 11.6%	71%

Slovenia	+ 14.7%	61%
Germany	+ 16%	78%
Finland	+ 21%	82%
Cyprus	+ 24%	56%

Table 6: Mortality rate in some European countries in October 2022

Calculations on 14.5% access mortality rate are supported by official data of "World in Data" which confirm that excess mortality is higher in countries where the number of vaccinations on 100 habitants is higher. Further on these data are confirming that with the increase in the number of vaccinations in a given month, access mortality is increasing too. With the decrease in the number of vaccinations, access mortality is decreasing [20].

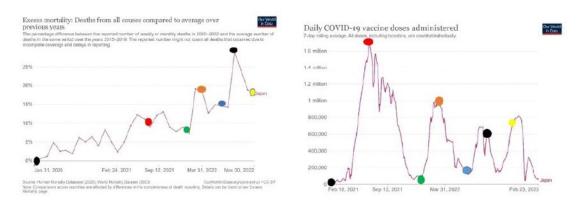


Figure 8: Excess mortality and number of daily vaccinations in Japan

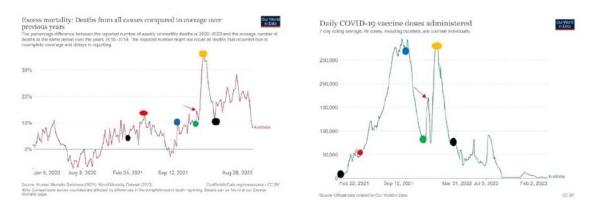


Figure 9: Excess mortality and number of daily vaccinations in Australia

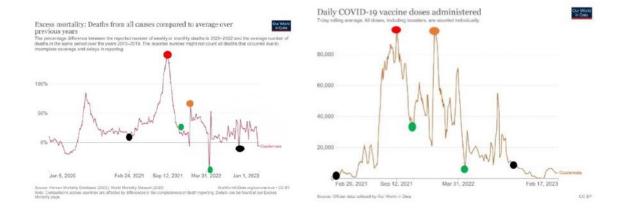


Figure 10: Excess mortality and number of daily vaccinations in Guatemala

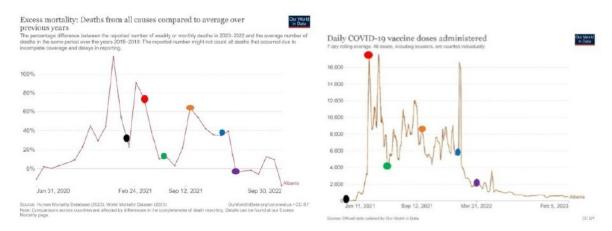
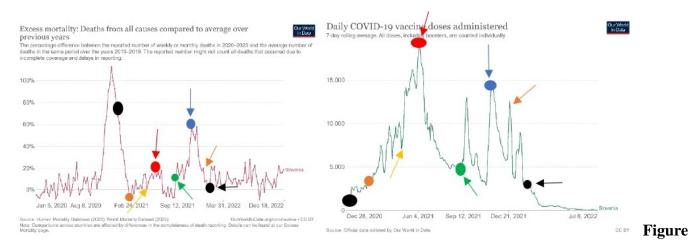


Figure 11: Excess mortality and number of daily vaccinations in Albania



12: Excess mortality and number of daily vaccinations in Slovenia

Slovenia is a country where in a given time period, vaccination has increased and mortality has decreased. This happened between 28. December 2020 (dark spot) and 14.

February 2021 (light brown spot). After 14. February 2021 with the increased vaccination, the mortality rate is increasing.

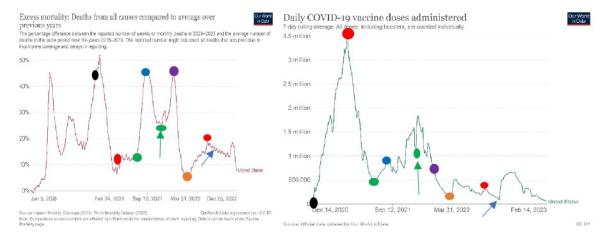


Figure 13: Excess mortality and number of daily vaccinations in USA

The USA is a country where in a given time period, vaccination has increased and mortality has decreased. This has happened between 20. December 2020 (dark spot) and 12. April 2021 (red spot). From 9. July 2021 (green spot) the graphs show clearly that with the increase in vaccination, the rate of mortality has increased. The USA is the only country where the graph in increased mortality and the number of vaccinations are getting aligned in July 2021. In all countries, we study, this occurs already in March 2021.

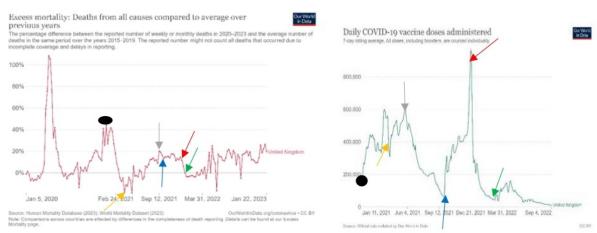


Figure 14: Excess mortality and number of daily vaccinations in UK

The UK is also a country where in a given time period at the beginning of vaccination with the increase of the daily number of vaccination, mortality has decreased. This happened between 11. January 2021 (dark spot) and 22. March 2021 (orange arrow). After 22. March with the increase in vaccination, the mortality rate is also increasing.

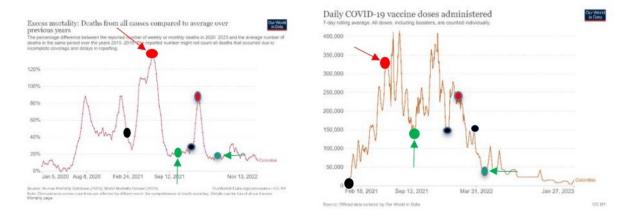


Figure 15: Excess mortality and number of daily vaccinations in Colombia

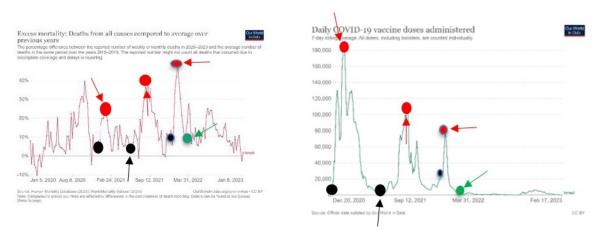


Figure 16: Excess mortality and number of daily vaccinations in Israel

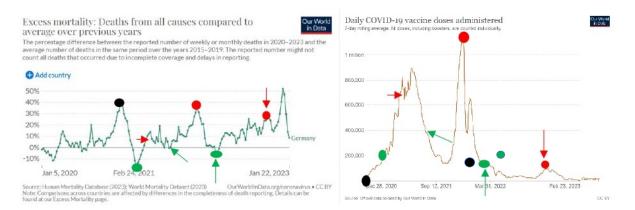


Figure 17: Graphs of vaccination and excess mortality in Germany

Germany is also a country where in a given time period at the beginning of vaccination with the increase of the daily number of vaccination, mortality has decreased. This happened between 28. January 2020 (dark spot) and 7. March 2021 (green spot). After 7. March 2021 with the increase of vaccination mortality rate is also increasing.

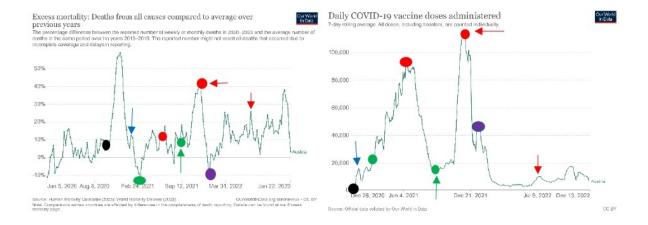


Figure 18: Graphs of vaccination and excess mortality in Austria

Austria is also a country where in a given time period at the beginning of vaccination with the increase of the daily number of vaccinations, mortality has decreased. This happened between 29. December 2020 (dark spot) and 7. March 2021 (green spot). After 7. March with the increase in vaccination, the mortality rate is also increasing. The last red vertical arrow on the left graph is showing excess mortality on 24. July 2022. The last red vertical arrow on the right graph is showing the peak of vaccination 15. July 2022.

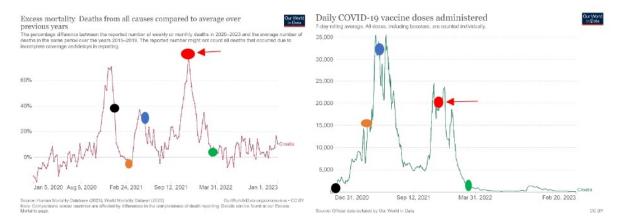


Figure 19: Graphs of vaccination and excess mortality in Croatia

Croatia is also a country where in a given time period at the beginning of vaccination with the increase of the daily number of vaccination, mortality has decreased. This happened between 31. December 2020 (dark spot) and 7. March 2021 (light brown spot). After 7. March with the increase in vaccination, the mortality rate is also increasing.

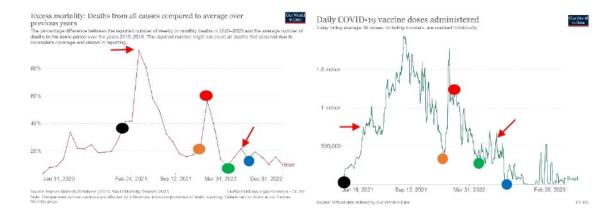


Figure 20: Excess mortality and number of daily vaccinations in Brazil

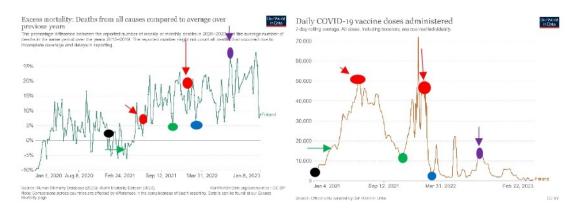


Figure 21: Excess mortality and number of daily vaccinations in Finland

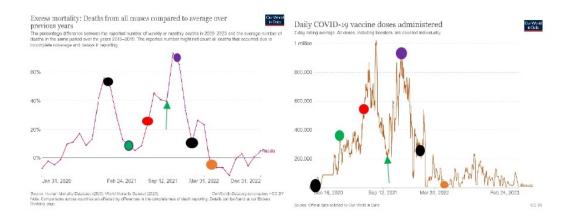


Figure 22: Excess mortality and number of daily vaccinations in Russia

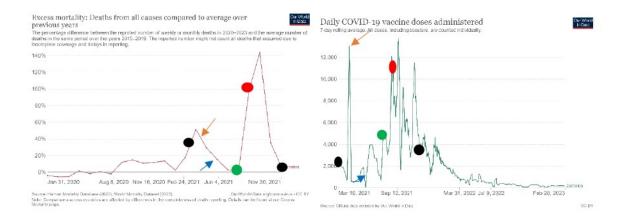


Figure 23: Excess mortality and number of daily vaccinations in Jamaica

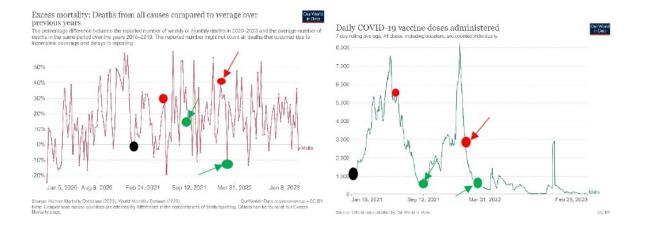


Figure 24: Excess mortality and number of daily vaccinations in Malta

When we compare graphs that show the mortality rate and the number of vaccinations per day and can see that graphs for all countries have similar shapes. On the left, we see decreased mortality rate. On the right, we see the number of vaccinations in time. We can see that the mortality rate is increasing with the increasing number of vaccinations per day. We can see that the mortality rate is decreasing with the decreasing number of vaccinations per day. In a few countries, there is an exception in the first two months of vaccination, with the increase of vaccination mortality rate is increasing.

Covid vaccination was introduced in 2021 and 2022 because of the high excess mortality rate in 2020 that was caused by Covid-19. People that are vaccinated are protected from Covid-19 and should have a lower mortality rate. The lower number of vaccinated in a given month should increase the mortality rate, but we see that it is the opposite. This proves that covid vaccines are increasing the death rate.

In general, to the official narrative, we should have the opposite situation. In the time period where vaccination is increasing, we should have a lower rate of mortality and in time periods where vaccination is decreasing, we should have a higher mortality rate. We have the opposite situation that is confirming that covid vaccines are increasing the mortality rate.

We can see on the Figure 24 on the graph on the right that peak mortality rates (red points) happened after the peak of vaccinations. That's why we decided to check the periods of highest mortality and the intensity of vaccination in the time period before.

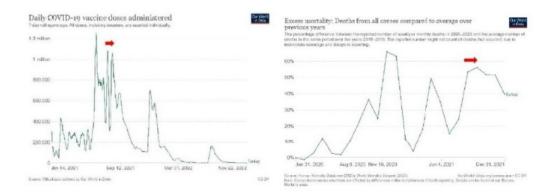


Figure 25: In Turkey, a high mortality rate period happened after an intense period of vaccination The red arrow on the left represents the intense vaccination period between 31. July and 31. August 2021. The red arrow on the right is a high mortality period between 31. August 2021 and 30. September 2021.

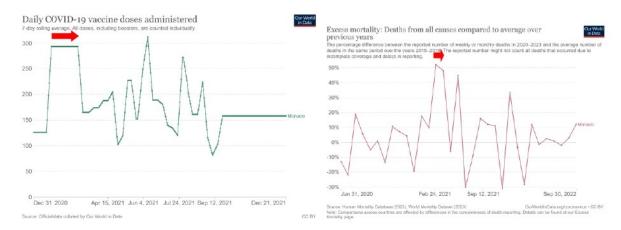


Figure 26: In Monaco, a high mortality rate period happened after an intense period of vaccination The red arrow on the left represents the intense vaccination period between 25. January and 4. March 2021. The red arrow on the right is a high mortality period between 28. February 2021 and 31. March 2021.

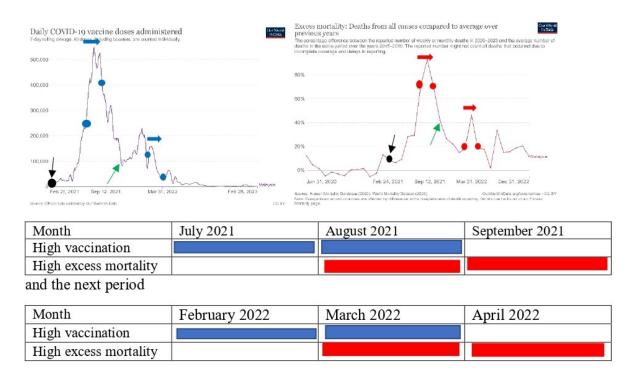


Figure 27: In Malaysia, a high mortality rate periods happened after an intense periods of vaccination

The first blue arrow on the left represents the beginning of intense vaccination period between 1. July and 31. August 2021. The first red arrow on the right represents the beginning of a high mortality period between 1. August 2021 and 30. September 2021. The second blue arrow on the left represents the beginning of intense vaccination period between 1. February and 31. March 2022. The second red arrow on the right represents the beginning of a high mortality period between 1. Mach 2022 and 31. April 2022.

The mathematical algorithm of correlation between mortality rate and vaccination is following. Let's take that X_n is the number of vaccinations in the time period of 30 days. X_{n+1} is the number of vaccinations in the time period of next 30 days.

When $X_n = X_{n+1}$, the numbers of excess deaths (ED) in both time periods are close to equal:

$$X_n = X_{n+1} \to ED_n \approx ED_{n+1}.$$

 $X_n = X_{n+1} \to ED_n \approx ED_{n+1}.$ When $X_n < X_{n+1}$, the numbers of excess deaths are as follows: $X_n < X_{n+1} \to ED_n < X_{n+1}$

When $X_n > X_{n+1}$, the numbers of excess deaths are as follows: $X_n > X_{n+1} \to ED_n > 0$

If vaccines saved lives, the situation would be the opposite:

$$\begin{array}{ll} X_n < \ X_{n+1} \ \rightarrow \ ED_n > ED_{n+1}. \\ X_n > \ X_{n+1} \ \rightarrow \ ED_n < ED_{n+1}. \end{array}$$

$$X_n > X_{n+1} \rightarrow ED_n < ED_{n+1}$$
.

Unfortunately, this is not the case. The rule is general, with only a few exceptions in some countries in the first two months of vaccination. In general, analysis is confirming that vaccines cause "sudden deaths with unknown reason" in the time frame of 30 days. That's why the increase in vaccination, in general, has increased the mortality rate.

The results of this article are preliminary but statistically significant enough that an urgent analysis of the existing database (13, 20) should be done in order to obtain final results.

4. Conclusion

Covid-19 vaccination policies have been widely adopted on the supposition that Covid-19 vaccination was "safe and effective", a slogan that was widely circulated, even in the medical literature. These present calculations suggest that, rather than "safe and

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effective", Covid-19 vaccination has done irreparable harm to the health and lifespans of billions of people worldwide. Based on calculations performed for each of five 28-day intervals in 2021 and 2022, our results indicate that the mortality of the vaccinated coronavirus-infected groups was 14.5% higher on average than the mortality of non-vaccinated coronavirus-infected groups.

The findings of this analysis warrant an extensive reassessment of UK Health Security Agency data on Covid-19-related mortality and vaccination status for different age groups in England. Every UK County has accurate data on vaccination status, including information on who was vaccinated, how many times they were vaccinated, and who was not vaccinated. As long as the person is alive, vaccination status can be verified. After death, however, vaccination status is usually lost or disregarded, and yet death rate comparisons between the vaccinated and non-vaccinated groups offer us the most reliable evidence for the vaccination's relative impact on mortality. Similarly, it is common practice to hide the vaccination status of sick people, whether the diagnosis is Covid-19 or other illnesses. When a person gets sick and visits his or her doctor, the physician typically will not ask about Covid-19 vaccination status. In this way, the potentially catastrophic impact of Covid-19 vaccination, now and in the future, continues to remain obscure.

How this horrible stain on public health and the medical system has been allowed to persist is a complex question. By the end of 2020, all of the established security measures and scientific standards for public health responsiveness to a pandemic had been subverted. Early treatment protocols using low-cost, effective off-label drugs were banned, thanks to an intensive misinformation campaign orchestrated by the vaccine establishment. Nutritional and lifestyle measures for bolstering antiviral immunity were ignored by the mainstream medical community. In clinical practice, the new rules for treatment and management of Covid-19-related disease were not evidence-based but instead were driven primarily by political and financial interests that have their roots in the medical-pharmaceutical industrial complex. The modern medical system of many westernized countries has forsaken its ethical center, which is best summarized by the **ancient Latin dictum of** *Primum Non Nocere*, "First, Do No Harm". The only way for medical doctors to reclaim the ethos of their once noble profession, and to do so with grace and respect, is to stop acquiescing to corrupt federal agencies and pharmaceutical influence, to take medicine back into their own hands.

Perhaps we can learn from the example set by India, the second largest country in the world. Despite enormous media pressure worldwide declaring that vaccination was the only way to prevent Covid-19 infection, many clinics and hospitals in India endorsed the use of the low-cost anti-parasitic drug Ivermectin, and with excellent results [21]. This shows that East Indian doctors are maintaining a high level of medical ethics, and this has likely saved many lives while preserving the original spirit of "good medicine". The primary aim of medical care should be to increase health and well-being, not to increase illness so that more drugs can be sold. For the last two decades, the use of pharmaceuticals has increased drastically all over the world. This is not a coincidence; it is the Big Pharma business plan. Because healthy human beings with competent immune systems are not customers for this gargantuan industry, they represent an obstacle to the industry's progress. This is where medicine must fight to reclaim its independence, by asserting that its purpose is (1) to promote health, (2) to prevent disease, and (3) to cure of disease, in that order. In India, this original purpose of medicine is still alive and well.

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