



## COVID-19 mortality paradox (United States vs Africa): Mass vaccination vs early treatment

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### Abstract

The coronavirus disease 2019 (COVID-19) mortality rate in 55 African countries is almost 4.5 times lower than in the coronavirus disease 2019 (COVID-19) despite Africa having over 4.2 times more people. This mortality paradox is also evident when comparing Nigeria, a heavily populated, poorly vaccinated and weakly mandated country to Israel, a small, highly vaccinated and strictly mandated country. Nigeria has almost 4 times lower COVID mortality than Israel. In this Field of Vision perspective, I explain how this paradox has evolved drawing upon my academic, clinical and social experience. Since April 2020, I've developed and been using the Egyptian immune-modulatory Kelleni's protocol to manage COVID-19 patients including pediatric, geriatric, pregnant, immune-compromised and other individuals suffering from multiple comorbidities. It's unfortunate that severe acute respiratory syndrome coronavirus 2 is still evolving accompanied by more deaths. However in Africa, we've been able to live without anxiety or mandates throughout the pandemic because we trust science and adopted early treatment using safe, and effective repurposed drugs that have saved the majority of COVID-19 patients. This article represents an African and Egyptian tale of honor.

**Key Words:** COVID-19; Early treatment; Kelleni's Protocol; Mandates; Mortality Paradox; SARS-CoV-2; Nucleic acid based vaccines

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**Core Tip:** Coronavirus disease 2019 (COVID-19) has claimed the lives of millions of people worldwide. Paradoxically, the highest mortality numbers were encountered in countries that adopted the Western approach of mass nucleic acid based vaccination and rapidly approved drugs such as remdesivir, molnupiravir and nirmatrelvir-ritonavir (Paxlovid). In contrast, most developing countries that adopted early treatment using uniquely repurposed safe immune-modulatory drugs, as best scientifically documented in Kelleni's protocol, experienced the lowest COVID-19 mortality rates. In this field of vision perspective, I aim to explain the COVID-19 mortality paradox by demonstrating our African scientific approach which rejected compulsory vaccination with nucleic acid based vaccines as well as many other Western mandates. Early treatment using Kelleni's protocol has saved the lives of geriatric, immune-compromised and other comorbid COVID-19 patients, while young and otherwise healthy patients lost their lives in developed countries like the United States.

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## INTRODUCTION

As of October 1, 2023 severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is still evolving and the potential to return to square one remains valid[1]. Unfortunately, very few lessons have been learned since November 2019, if any[2] despite the fact that coronavirus disease 2019 (COVID-19) global mortality has approached seven million people, to be noted that this abstract and underestimated number[3] can never reflect the personal suffering of millions of families. Moreover, the repeated COVID-19 imposed lockdowns have severely affected the global economy[4] and have led to increased poverty[5]. Additionally, numerous psychological disorders have affected children who have been isolated at home or constrained at schools as well as adults who have experienced repeated lockdowns[6]. Several mandates especially compulsory vaccination have been strictly implemented, resulting in job loss, defamation, stigmatization, intimidation or censorship of individuals who refused to comply[7,8] or exposed potential fraud[8,9].

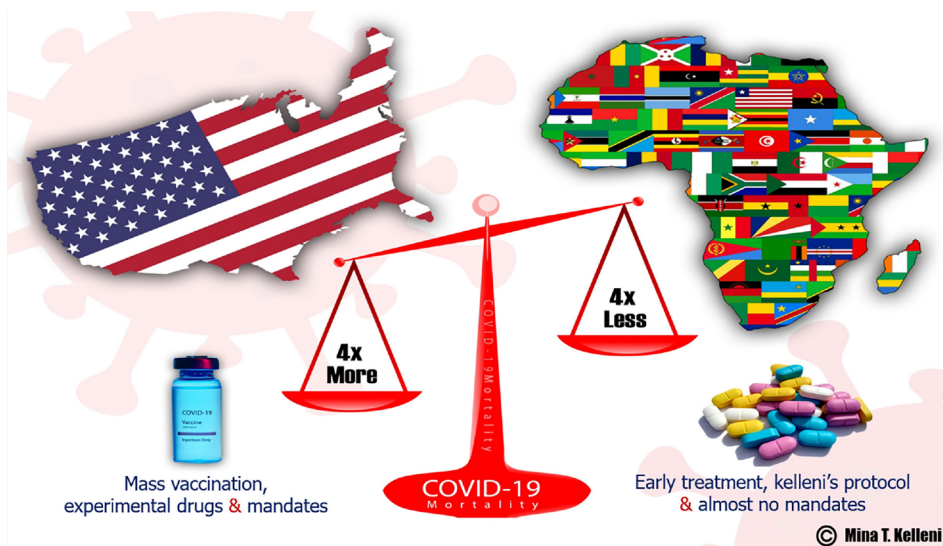
Remarkably, most African countries, including Egypt, have managed to avoid this catastrophic situation. We were fortunate as we initially had no access to the newly introduced "experimental" nucleic acid based (mRNA and adenovector-ed) vaccines and other expensive "experimental" drugs such as remdesivir, molnupiravir, Paxlovid and numerous monoclonal antibodies[10-12]. These drugs were very rapidly approved and distributed first in Western and wealthy countries despite scientific concerns about their outbalanced risk-benefit ratio[11], their evolutionary pressure leading to more virulent SARS-CoV-2 variants[3], biased approval standards[9,13], and even delayed carcinogenicity risk [11,14,15].

Furthermore, we, Africans, have defied many mandates and have enjoyed a relatively COVID-free life. Nonetheless, the total number of COVID-19 deaths in 55 African countries as of October 1, 2023 was almost 4.5 times lower than in the United States, despite the fact that Africa has over 4.2 times more people than the United States[3] (Figure 1). Similarly, the mortality paradox is quite evident when comparing Nigeria, a heavily populated country with over 216 million people, relatively low vaccination rates and weak mandates to Israel, a small country with less than 10 million people, high vaccination rates and strict mandates. Nigeria has almost 4 times lower COVID deaths compared to Israel. Similar observation can also be made when examining the case of Haiti, a Caribbean with a population of over 11 million people. Despite having a negligible COVID-19 vaccination rate, with only 5% of the population choosing to receive it, Haiti has experienced almost no COVID burden or mortality[3]. This perspective aims to provide some reasons that may explain this paradox while drawing upon my academic, clinical and social experience.

## EARLY COVID-19 TREATMENT USING KELLENI'S PROTOCOL IN EGYPT HAS PERFECT SUCCESS RATE

My first correspondence regarding COVID-19 was sent to the New England Journal of Medicine in March 2020 (ID 20-06753), but it was rejected without comment. In this correspondence, I aimed to expose what I called a pseudoscientific global scam that denied millions of patients access to lifesaving nonsteroidal anti-inflammatory drugs (NSAIDs), including ibuprofen, for the management of their COVID-19[16]. For months, nearly a dozen reputable journals denied me the opportunity for a peer review. However, an honorable editor in chief and the editorial board of a reputable journal offered me this opportunity and my work was eventually published[17,18].

Meanwhile, in April 2020, my first peer-reviewed publication was released. It explained for the first time globally why nitazoxanide is best suitable to manage COVID-19 and why it's superior to ivermectin regarding safety and efficacy[19]. It has also explained why azithromycin should be the antibiotic of choice when COVID-19 patients need one and a pioneering protocol was first suggested[19]. At that time, there was no ivermectin "obsession". However, when the full real-life immune-modulatory Kelleni's protocol using safe, effective and economic repurposed drugs was first fully published as a preprint in June 2020 (after prior preprints were published in May 2020); many editors of reputable



**Figure 1 The coronavirus disease 2019 mortality paradox.** The United States has tackled coronavirus disease 2019 (COVID-19) by heavily relying on mass vaccination, rapidly approving experimental drugs and implementing strict mandates. In contrast, Africa has chosen to adopt early treatment using safe repurposed drugs as best scientifically revealed in Kelleni's protocol and has abandoned mass vaccination and mandates. Despite Africa having a population over four times larger than the United States, its COVID-19 death toll has been four times lower.

medical journals were still skeptical. They repeatedly denied me fair opportunity for peer review. Additionally, my call to adopt randomized clinical trials of my protocol was completely ignored, despite hundreds of emails sent to scientists, ministers of health, prime ministers, journalists, the United States Food and Drug Administration (FDA) and other health care officials. I've kept records of these attempts, urging them to consider that an Egyptian and African protocol is safely, effectively and economically saving the lives of Egyptian patients of all ages as later was evident by numerous publications published at reputable journals[16,18,20-23]. Unfortunately, I've never received a single response from any of these hundreds of official recipients around the world, regardless of the number of reputable publications supporting my claims. This made me realize that during times panic and pandemic, medicine in Western countries serves politics rather than people. Ironically, I also realized that most ministers of health in the West are not physicians or scientists and their main aim is probably to win votes rather than save lives.

However, since April 2020, myself and many of colleagues who read my early publications and adopted the simple clinical approach of Kelleni's protocol, have almost saved every single life that was not previously exposed to remdesivir and the iatrogenic high dose of methylprednisolone used in hospitals that claimed to adopt the Western protocols[24]. Many of these cases suffered from moderate to severe COVID-19[21,23,25]. Notably, it took me almost a year and a half to have some of my COVID-19 preprints peer reviewed and published. In these numerous papers I've explained why the highly economic and extremely safe immune-modulatory Kelleni's protocol is highly effective and I've also demonstrated the molecular, genetic, immune mechanisms[16,22,26] together with real-life case reports of tens of patients including severe COVID-19 cases and how I used a personalized approach in their management[21,25]. Hence, this is how the name Kelleni's protocol has been coined[18,20,27].

Notably, at the start of the pandemic, I was working in Saudi Arabia, away from my family and patients in Egypt. This is why I initially relied on telemedicine. However, I soon resigned and returned home to be among the impoverished Egyptian patients and near my family members. I reopened my traditional clinic focusing mainly on COVID-19 and Post COVID syndrome; I named it Kelleni's COVID Clinic. I have been fully dedicated to the clinic until mid-December 2022 when knowledge about my protocol has spread, especially after appearing in three TV shows. At that point, I decided to take a break, return to telemedicine and traditional medicine in charitable clinics to have more time to resume my academic activity and share my updated clinically gained knowledge globally[1,3,20,27,28]. Importantly, my family; especially my parents in their 80s and my young daughters were the guiding light in my quest for a safe cure, as well as to repurpose a safe old vaccine which we all received it once[29]. Fortunately, I soon realized that we don't need a vaccine for this highly evolving respiratory virus. Early treatment using the immune-modulatory Kelleni's protocol has remained the most effective tool against all SARS-CoV-2 variants and subvariants.

## IN AFRICA WE AVOIDED HOSPITALS THAT ADOPTED THE WESTERN COVID-19 PROTOCOLS

Moreover, it was quite astonishing to encounter, at a very early stage in the pandemic, how almost every time an Egyptian celebrity or high ranking official was treated in governmental or private hospitals using Western protocols that included remdesivir and dexamethasone, the ultimate outcome was death or, at best, disability[24]. Meanwhile, geriatric people with multiple co-morbidities were safely treated using Kelleni's protocol mostly at home[21,25]. Subsequently, the "business" of monoclonal antibodies have flourished[24], followed by the introduction of relatively unsafe and potentially ineffective yet highly profitable drugs like favipiravir and molnupiravir[10,12]. These drugs were widely

introduced to the African pharmaceutical market without most of the Western restrictions, and there was no fear of legal consequences. I claim that the Western COVID pharmaceutical industry has gained hundreds of billions of dollars while exploiting people's fear and ignorance. Notably, Western top politicians protected and nourished this business using mandates, along with a fierce media that defamed or at best ignored any attempt to expose potential corruption. They simply ignored the loss of precious souls and probably considered them collateral damage, or at best a necessary sacrifice to save the globe[7]. Notably, I've been permanently banned from Twitter twice and temporarily banned from Facebook seven times whenever I argued against the dogma of "perfectly safe and effective nucleic acid based vaccination". No matter how badly the Western countries were being severely hit by COVID-19, not a single stakeholder, politician or journalist replied to my repeatedly sent updated emails and scientific publications, except for one thank you email from a high-ranking FDA official after I've exposed another very recent potential scam[28].

I repeatedly argued, with fervent decline of any opportunity for peer review, that mass vaccination campaigns, drugs like remdesivir, dexamethasone, favipiravir, molnupiravir, monoclonal antibodies as well as Paxlovid are inducing the evolution of more and more virulent immune-evasive SARS-CoV-2 variants that could prolong and worsen the global misery and division in which we live[3,12]. Meanwhile, I also repeatedly advocated for the use of immune-modulatory drugs such as those used in Kelleni's and Expanded Kelleni's protocol[1,18,20,25,27] as the right approach to treat and abort SARS-CoV-2 infection and end this pandemic. Moreover, I occasionally used Kelleni's protocol (nitazoxanide and/or NSAIDs) in successful post-exposure prophylaxis of close contacts of SARS-CoV-2 patients. I've also administered the immune-modulatory Bacillus Calmette-Guérin vaccine to myself and my family to boost our natural immunity[29]. We're not and have never been "antivaxers" as stigmatized by the biased sponsored media, indeed we are the ones who trust real science[3].

## IN AFRICA WE DEFIED THE UNSCIENTIFIC MANDATES

As mentioned previously, in Africa we enjoyed our lives during most of the pandemic after only a few months of the initial global panic. My father, who is in his eighth decade of life, has seldom put a mask on his face despite my early recommendation to wear one. The vast majority of poor people in Africa have acted similarly, either because they can't afford the additional costs of "masks" or, like my father, because they simply want to enjoy breathing without restrictions as they have done all their lives and they trust their natural immunity. Later, I allowed my two little daughters not to wear masks, which is a voluntary choice in most Egyptian kindergartens and schools. I considered the inevitable infection as a natural vaccine when early properly treated[3].

However, we had a very difficult time when some African governments wished to sell imported vaccines and distribute late "gifts" coming from rich countries. These countries falsely promoted another scam, claiming that their overall failure with the new vaccines/boosters and the increasing number of death among "vaccinated" people was because of the unvaccinated individuals, including those living in poor Africa. Unfortunately, some African governments threatened poor employees with their jobs if they were not vaccinated and people were denied entry of any governmental facility unless they showed a vaccination certificate. Ironically, many employees were forced to sign a legal document stating that "they received the vaccine of their own free will and exempting the government and vaccine manufacturers from any adverse effect whether known unknown and whether immediate or future". Moreover, there was absolute silence and denial when we early witnessed the deaths of numerous young healthy adults, including health care professionals, soon after receiving the "vaccines"[11]. While some Western governments later paid huge compensations for "COVID vaccine victims" or their families, this has never been and probably will never be an option for most of the poor people in Africa, as it's almost impossible to find a civil court that will condemn a sovereign mandate that led to these tragedies. In Egypt, one private newspaper initially published my call not to mandate these vaccines and in some YouTube videos and one TV show, I urged the consideration of a personalized risk benefit ratio, but to no avail.

During this struggle, I've published several preprints that highlighted the potential hazards of mandate nucleic acid based jabs including a call to immediately suspend Pfizer-BioNTech mRNA vaccine though knowing that this was almost impossible. I even suggested to the manufacturers that they should decrease the dose of the vaccine in order to mitigate some risks and they later practically adopted this approach in the "boosters". However, after a year of absolute denial of peer review from numerous medical journals, an article has been published to explain why I consider mandatory nucleic acid based vaccination a crime against humanity as it poses potential hazards in both the short term for some victims and the long term for others[11]. Fortunately, some African health care workers, despite their low rank, acted with mercy and provided people with the required governmental papers confirming vaccination while secretly disposing these vaccines in the trash.

In contrast, it was disheartening to witness high-ranking officials in the West ignore to fairly investigate the claims made by whistle blowers who exposed severe medical malpractice in Pfizer-BioNTech mRNA clinical trials[9]. The denial of people's free will in deciding whether or not to be injected with a new technology was another global tragedy. Furthermore, when an editor of the well-known Journal "Science" falsely and shamelessly promoted vaccine mandates among college students, he denied me the opportunity to present a counterargument and I preprinted it. Even the European Court of Human Rights ruled that compulsory vaccination with nucleic acid based vaccines would not violate human rights law[11].

I argue that the COVID mortality paradox has originated when a biased scientist and his followers manipulated desperate American and other Western politicians to approve, integrate and mandate highly profitable drugs[10,30] and vaccines with outbalanced risk benefit ratio, at least for currently proven and undisputed numerous victims[11,15,31-34]. Although these serious adverse effects labeled as rare, yet can't be predicted[31,35,36]. Some have described it as a



“Russian roulette” game and I agree especially considering that Africa has managed COVID-19 better without nucleic acid based vaccines. Additionally, there may be a yet unknown and properly uninvestigated or dismissed as co-incidence adverse effects associated with these vaccines as mentioned earlier. Moreover, the ongoing evolution and mutation of SARS-CoV-2 may be directly and indirectly attributed to the suppressed natural immunity and the administration of pro-mutant vaccines and drugs. I strongly suggest that these biased stakeholders, not SARS-CoV-2, are responsible for most of the COVID-19 mortality, which primarily affects their own citizens in their home countries. These stakeholders should be held accountable and prosecuted[11].

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## IN AFRICA WE ENJOY A HEALTHIER LIFESTYLE

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Despite poverty being a major problem in Africa, one can buy large quantities of antioxidant-rich fruits and vegetables for just one United States dollar[37]. This highly healthy and nutritious food comes at with minimal cost and it was a huge surprise when I travelled abroad and found how expensive similar items are in Western countries. Additionally, air and water pollution are much lower in many African countries compared to the West, and obesity is also less prevalent in Africa. All these factors, along with simpler mental and better spiritual well-being, contribute to better natural immunity in African citizens compared to their Western counterparts.

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## CONCLUSION

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Africa has been fortunate to avoid the expedited, toxic, ineffective and potentially mutagenic Western COVID-19 interventions. These interventions, including experimental vaccines and drugs developed or repurposed by biased Western scientists, have been promoted by politicians, pharmaceutical companies and other stakeholders who control most of the mainstream media and social networks. On the other hand, early treatment using Kelleni’s protocol has successfully managed every Egyptian COVID patient regardless of its initial case severity. Unfortunately, the majority of the world remains blind to the possibility of being manipulated by these stakeholders who are well aware that if this possibility is thoroughly examined, they might face serious ethical and legal consequences beyond losing their political, academic or financial positions.

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I would like to acknowledge the example set by my great grandfather, Saint Athanasius of Alexandria, also known as “contra-mundum”. In the fourth century AD, he chose to stand firm with my brave Coptic ancestors against a corrupt and powerful global coalition that included emperors, potentates and top-ranked bishops. Together we, Egyptians, defended what we believed to be right, noble and just. Despite being an apparently powerless minority, we eventually emerged victorious. I would also like to express my gratitude to OSF Preprints for preprinting an earlier version of this article which included many other citations supporting the claims mentioned.

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## FOOTNOTES

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