



### Article The Correlation between Hofstede's Cultural Dimensions and COVID-19 Data in the Early Stage of the COVID-19 Pandemic Period

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Abstract: COVID-19 (coronavirus disease 2019) has become the deadliest virus to affect the international community in recent history, with more than 760 million people infected and more than 6.87 million deaths as of March 2023; therefore, based on Hofstede's national cultural theory, this study collected Hofstede's six national cultural dimensions on a global scale, namely, power distance (PDI), individualism/collectivism (IDV), masculinity/femininity (MAS), uncertainty avoidance (UAI), longterm/short-term orientation (LTO), and indulgence/restraint (IVR) scores, and COVID-19 data from the World Health Organization (WHO) from 22 February 2020 to 30 February 2021. Then, based on eight items of global COVID-19 data, this study analyzed the correlation between Hofstede's six dimensions and the COVID-19 data from six regions (Africa (AFRO), Europe (EURO), the Americas (AMRO), the Western Pacific (WPRO), South East Asia (SEARO), and the Eastern Mediterranean (EMRO)) divided by the WHO. This study found the following: (1) Hofstede's six cultural dimensions indeed have a significant correlation with the COVID-19 data of different WHO regions in different ways. (2) Except for IDV and UAI, PDI is a highly critical factor and has a significant correlation with the COVID-19 data from AFRO and EMRO. MAS also is an important factor and has a significant correlation with COVID-19 data from WPRO and SEARO. Meanwhile, LTO has a significant correlation with some COVID-19 data from the AMRO region, and IVR has a significant correlation with some COVID-19 data from the EURO region. Finally, the new insights from this study are worthy of further study by scholars, and they will be of great help to global governments and medical institutions in formulating policies to suppress infectious diseases in the future.

Keywords: Hofstede's national cultural theory; COVID-19; meta-research method; narrative method

### 1. Introduction

Since the beginning of 2020, as the coronavirus disease 2019 (COVID-19) swept the world, in order to curb the spread of this disease and reduce the threat to people's lives, all countries issued blockade orders to lock down cities and countries and restrict the flow of all items (e.g., food, medicine), resulting in a complete change in the pace of life of people around the world. Not only was it impossible to reunite with relatives and friends during holidays, it was also impossible to go to work as usual and travel freely by means of transportation, which completely subverted people's existing way of life [1]. In the first two decades of the 21st century, human beings have also faced many pandemic diseases (e.g., bird flu, SARS, swine flu, MARS, Ebola, Zika, and other viruses), but none were as far-reaching as COVID-19, which led to the closure of small businesses such as cafes, restaurants, and hair salons; impacted economic activity such as e-commerce, technology, and business travel; and caused the unemployment of millions of people worldwide (e.g., immigrants, part-time employees).



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**Copyright:** © 2023 by the authors. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (https:// creativecommons.org/licenses/by/ 4.0/). As of March 2023, COVID-19 has become the deadliest virus to affect the international community in recent history [2], with more than 760 million people infected and more than 6.87 million deaths. Many scholars [3–17] have conducted research on COVID-19 based on Hofstede's cultural theory to study the correlation between Hofstede's dimensions, COVID-19 data, and the role of socio-economic factors, and they found that different cultures will indeed influence COVID-19 data in different countries. In light of this, culture is an important factor influencing COVID-19 data. However, these studies did not focus on the difference between Hofstede's cultural dimensions to explore the gap between different World Health Organization (WHO) regions.

Therefore, this research aims to further understand why different national cultures lead to different results with regard to curbing the spread of COVID-19. In view of this, based on Hofstede's national cultural theory, this study tries to understand the correlation of COVID-19 spread in different WHO regions. Therefore, this is an important research question to be resolved in this study.

In order to clarify the research question of this study, the six dimensions of Hofstede's national cultural theory are used. Hofstede's theory includes countries around the world and is updated year by year, and is used as the framework for our analysis [18–20]. Hofstede's national cultural theory includes the following six dimensions: (1) power distance (PDI), (2) individualism/collectivism (IDV), (3) masculinity/femininity (MAS), (4) uncertainty avoidance (UAI), (5) long-term/short-term orientation (LTO), (6) indulgence/restraint (IVR). Accordingly, through this research we hope to help the industry and government departments conduct analyses according to Hofstede's national cultural theory [18–20], to reduce the spread of COVID-19, and to keep people alive in a safe IT environment.

Therefore, in this study we collect relevant secondary data (e.g., global pandemic data, related journal articles, newspapers, and magazines) and analyze these data according to Hofstede's differences in the six dimensions of national culture based on COVID-19 data from six regions (Africa (AFRO), Europe (EURO), the Americas (AMRO), the Western Pacific (WPRO), South East Asia (SEARO), and the Eastern Mediterranean (EMRO)), as divided by the WHO. We analyze the correlation between Hofstede's six dimensions and the COVID-19 data of six regions, and the gap between different WHO regions. Please refer to Figure A1 for the countries included in each WHO region.

However, there are five limitations of this study: (1) Because of the limitations of Hofstede's cultural dimensions, COVID-19 data from only 117 countries can be analyzed. (2) There are some countries still at war, with no sound medical systems, and no access to the Polymerase chain reaction (PCR) test, and therefore, the research results are biased. (3) The execution of the isolation policy for each country is different, so the results of some of Hofstede's cultural dimensions (e.g., PDI, IDV, and LTO) are conflicting and opposing. (4) The weakness of the classification of the WHO regions may be not appropriate for analyzing COVID-19 data. (5) This study does not analyze the relationship between information technology (IT) and COVID-19 data, and IT could be a critical factor in inhibiting the spread of COVID-19. However, these limitations can be a good way to direct further study.

#### 2. Literature Review

At the beginning of 2020, the sudden outbreak of COVID-19 had an earth-shaking impact on industries and governments around the world. Everyone was overwhelmed for a while. After a long 10 months, the COVID-19 vaccines appeared one by one in various countries. Therefore, governments of various countries still needed to use coercive means to regulate people's daily life in order to effectively control the COVID-19 pandemic. Although many scholars have published many papers relating to COVID-19 in the past two years, some scholars have also studied the impact of the use of IT on e-commerce. However, they mostly focus on the demographic data of users (e.g., age, gender, education level, place of residence, and income) [21], or analyze whether consumers are willing to

pay for the ingredients of recipes online, so as to improve their willingness and behavior when online shopping [22].

Some scholars have analyzed the gap between different national cultures from the dimensions of individualism/collectivism and uncertainty avoidance in Hofstede's national cultural perspective [5,13,16,23,24]. Meanwhile, Shetty et al. [14] studied an overview of five of Hofstede's dimensions (PDI, IDV, MAS, UAI, and LTO) and their impact on the implementation of COVID-19 control strategies. Timo et al. [15] studied the correlation between Hofstede's six cultural dimensions, COVID-19 data, and the role of socio-economic factors drawn after the pandemic. However, these studies did not focus on the difference of Hofstede's cultural dimensions in exploring the gap between different WHO regions.

Therefore, we believe that the six dimensions of Hofstede's national cultural theory, which includes countries around the world and is updated year by year, can be used as the framework for analysis [18–20] to achieve the purpose of this study. Therefore, this study will discuss the literature of Hofstede's national cultural theory, national culture, and COVID-19.

#### 2.1. Hofstede's National Cultural Theory

Hofstede and Bond [20] believe that culture is composed of common ideas shared by a group, and is a collection of these common ideas interacting, which affects the group's response to the environment and is different from the ideas of other groups. From 116,000 IBM employees in 72 different countries, Hofstede [18] obtained attitude scale questionnaires to understand their cultural values and ideas. A total of 53 cultural blocks were divided into four national cultural dimensions, which were analyzed, and the differences among them were compared. The participants of Hofstede's research were employees of the same company with the same position, but they had grown up in different cultures. Therefore, the research has value is not only in its large number of participants, but also in its ability to provide researchers with an independent analysis for the discussion of cultural factors. Hofstede developed four dimensions of national cultures: power distance, individualism/collectivism, uncertainty avoidance, and masculinity/femininity.

Since the management philosophy of the East has gradually been regarded as a historical relic and a sign of backwardness, it has gradually been forgotten by the world. However, looking back on Chinese history, since Dong Zhong Shu of the Han Dynasty respected Confucianism and ousted hundreds of schools, successive dynasties have established a fairly stable social structure based on Confucianism to govern the vast territory of China, and the management structure and thought of the Chinese style should also have its contribution [20]. Therefore, Hofstede and Bond [20] obtained a new cultural dimension when conducting Chinese Value Surveys (CVSs) and analysis in their research on cross-cultural differences: Confucian dynamism. They believe that this cultural dimension is related to the tendency of long-term thinking and short-term thinking in life, and these values are related to the teachings of Confucius, so this dimension is called Confucian. Hofstede and Bond [20] surveyed 100 individuals (male: 50; female: 50) in 22 countries with this cultural dimension, and then joined China to conduct research in eight languages. Hofstede compared the research results of the CVS on IBM employees and found that IBM's four research dimensions represented the combination of Western values and CVS represented Eastern values. Therefore, CVS was added to Hofstede's cultural model to become the fifth dimension, which is called long-term/short-term orientation. Subsequently, a sixth dimension was added in 2010: indulgence/restraint, which is the degree to which members of society intend to control their own desires [19]. Finally, Hofstede collected data from 117 countries around the world [19].

Therefore, based on Hofstede's cultural theory, this study discusses the six cultural dimensions proposed by Hofstede [19]: power distance, individualism/collectivism, uncertainty avoidance, masculinity/femininity, long-term/short-term orientation, and indulgence/restraint.

#### 2.1.1. Power Distance

This is the extent to which a society accepts that power is unequally distributed among its members. Hofstede [23] used the power distance index (PDI) to represent the level of social power distance. Countries with a higher level of power distance tend to centralize power and attach importance to tradition, authority, and social class. On the contrary, in countries with a lower level of power distance, the power gap between the people is narrow, and subordinates will rely on their superiors limitedly, and they will be more independent between each other.

In a country with a large power distance, children must obey their parents' discipline, orders between children and adults are emphasized, independent behaviors are discouraged, and it is understood that respecting parents and elders is a virtue. People in the wider society expect others to treat themselves the same way. For people who grow up in an environment with a lower level of power distance, parents and children treat each other equally. There is a relationship of interdependence between those with a higher level of power and those with a lower level of power, and everyone has their value in existence regardless of their status. Therefore, in a country with a lower level of power distance, it is not believed that the level of education will affect the power value of the people.

#### 2.1.2. Individualism/Collectivism

Hofstede [23] used the individualism index score (IDV) to distinguish the relationship; those with higher scores belong to individualistic countries, and the relationship between people is loose. A low scorer relates to a collectivist state, where each member forms a solidarity with other members, protects them for life, and takes care of themselves and their family in exchange for their loyalty.

In a collectivist society, people are born into large families or other groups. From an early age, they must learn to think from a group perspective. In order to maintain good relations with other members, members of the group must continue to protect each other, nurture loyalty with each other, maintain harmony, and avoid conflict. An individualistic society emphasizes personal feelings, and the opinions of others are not important. People learn to think about problems from a personal perspective since childhood. What matters is the individual's identification with themselves, which is a manifestation of honesty. Conflict is beneficial. Everyone has to take care of themselves and their family when they grow up. Endangering others is seen negatively, and those who do will often lose self-esteem.

#### 2.1.3. Masculinity/Femininity

This is the degree to which gender roles and expectations are differentiated in different countries. The masculine style emphasizes the traditional concept that masculinity should be valued. Hofstede [23] used the masculinity index (MAS) to show that a man may have feminine behavior, and a woman may also have masculine behavior, which means that their behavior differs from general social behavior.

A country with a feminine style teaches the people not to be ambitious and to maintain a humble attitude. Warm interpersonal relationships are very important. The mainstream value of society is to care about others and be conservative; even men should have a gentle disposition, value relationships with each other, and have compassion for the weak. Parents care about facts and emotions, they do not stop boys from crying, as boys do not need to cry because they are afraid of being seen as cowardly by others, and they do not allow people to use violence.

In a country with a masculine style, it is assumed that men are confident, ambitious, and strong; women are assumed to be gentle and caring in their relationships, and everyone has such expectations. The mainstream value of society is material progress and satisfaction, money, and other important items. At home, the father handles things and plays the role of arbiter; the mother handles feelings, listens to others express emotions, and heals emotional wounds. Women are allowed to cry, but men are not allowed; men can fight back against others' attacks, and women are not allowed to behave violently.

This is the level of anxiety which people within a society feel about the uncertainty of the future. Hofstede [23] used the society's tolerance for ambiguity as an index to measure the uncertainty avoidance index (UAI). Reducing uncertainty can calm people's minds.

In countries with strong avoidance of uncertainty, people learn how to avoid dangerous things from childhood. They know that non-standard behaviors can be dangerous, so they will avoid danger and taboos. In the face of unclear and taboo situations, there are strict rules to limit children's behavior; in the face of an unknown future, there is a strong sense of tension, anxiety, fear of unclear environments and risks, and even aggressive and emotional reactions. In order to avoid being in an environment of uncertainty, rules that are applicable will be formulated one by one. For countries with weak avoidance of uncertainty, uncertainty is a common phenomenon in life. People can stay calm in an uncertain and unclear environment, they will not be nervous about the uncertain environment in their life, and they do not think that uncertainty is dangerous or taboo.

#### 2.1.5. Long-Term/Short-Term Orientation

Confucian ideological dynamism refers to the difference between long-term and shortterm tendencies in life, measured by long-term tendencies (LTO). Hofstede and Bond [18] think these values are related to the teachings of Confucius. Long-term-oriented values are future-oriented and relatively dynamic; short-term-oriented values are related to the past and present and are relatively static. Among them: (1) Long-term orientation, which is biased towards the value of Confucian ideological dynamics, involves people facing the future, believing that the traditions of the past will change with the times, and observing things from a dynamic point of view, so there will be room for everything. (2) The value of short-term orientation lies in people paying more attention to current interests and pleasures, and hoping to see results in a short time. Quick success is more urgent and cannot be delayed.

#### 2.1.6. Indulgence/Restraint (IVR)

The extent to which members of society accept their basic needs and desires to enjoy life. Indulgence represents the basic normal desire to enjoy the pleasures of life, allowing unrestrained satisfaction, which is an unrestricted society; constraints reflect the need to control the enjoyment of life and manage with strict social norms, which is a restricted society [24].

Countries that indulge cultural characteristics have more people who feel very happy, attach importance to friends and leisure, have high life autonomy, are outgoing and optimistic, have a positive attitude (not cynical), and feel good about themselves. People are highly receptive to foreign music and movies, are satisfied with family life, housework is shared by both parents, they actively participate in physical exercise, and use email and the Internet to interact with others. Constrained societies are the opposite; social groups will have greater constraints on themselves [24].

In sum, Hofstede's national cultural theory measures the national cultural preferences of a specific country from six different dimensions, and provides a benchmark for people to identify and understand cultural phenomena. It is an effective tool for comparing and analyzing different cultures, and can help managers of international companies to quickly grasp consumer business opportunities and provide a foundation for cross-cultural management.

#### 2.2. National Culture and COVID-19

According to the characteristics of different cultures in different countries, it is difficult for international companies who encountered the COVID-19 pandemic to formulate effective strategies to avoid the risks caused by uncertainty [13]. Therefore, the uncertainty brought about by the COVID-19 pandemic will affect the globalization path of enterprises, the choice of entry mode, and the speed of international expansion. At this time, only minimizing risks can improve the operating performance for enterprises [25]. The COVID-19 pandemic has had a great impact on the development of e-commerce in mainland China, and consumers are willing to buy food online [7].

Sohaib et al. [26] believe that culture can affect consumers' online shopping behavior. They analyzed the online shopping behavior of Australian consumers based on Hofstede's [18] uncertainty avoidance. The results show that uncertainty avoidance does affect consumers' online shopping behavior [27]. Urbaczewski and Lee [16] tracked the confirmed cases of COVID-19 among people in mainland China, Germany, Italy, Singapore, South Korea, and the United States. They found that national culture has a high and significant correlation with the reduction of COVID-19 [16].

At present, although scholars have analyzed why the COVID-19 pandemic is better controlled in some countries than others based on the individualism/collectivism in Hof-stede's national cultural dimensions [4,10], they believe that different countries will have different responses to the COVID-19 pandemic. For countries that have collectivist cultural values, their people will sacrifice individual freedom for the interests of the group. Thus, as large-scale social coordination was a key coping mechanism during the pandemic, it is possibly related to more collectivist cultures in mainland China, South Korea, Taiwan, and Singapore. This is because, when people in a collectivist society are at risk, they will take more actions to protect individuals or communities [5], and will also strengthen the importance of solidarity through the media as a buffer to prevent the spread of the COVID-19 pandemic. The barrier to transmission helps fight the outbreak, so collectivist societies may be one of the reasons why these countries are doing so well [5]. It is also why collectivism in mainland China is better at blocking viruses [28].

In contrast, an individualistic society places more emphasis on individuals and freedoms and considers group interests less [5], thus reducing the effectiveness of large-scale social coordination, and social distancing measures were relatively ignored during the COVID-19 pandemic. Therefore, cultural differences are important, and managers need to understand how cultural differences may affect the way people process information and make decisions [5].

However, the above studies related to the COVID-19 pandemic and culture mostly focus on the dimensions of individualism/collectivism and uncertainty avoidance of Hofstede's national cultural theory perspective. Meanwhile, Shetty et al. [14] has studied an overview of five of Hofstede's dimensions (PDI, IDV, MAS, UAI, and LTO) and their impact on the implementation of COVID-19 control strategies. Their study used a case analysis of four countries: India, the United Kingdom, the United States of America, and Poland, to illustrate the interplay between culture and COVID-19 control strategies, and they demonstrated that cultural differences can significantly impact the success of COVID-19 control strategies [14]. In addition, Timo et al. [15] based their study on Hofstede's cultural dimensions in order to study its correlation with COVID-19 data. They found the pandemic reached different countries at different times, and the role of socio-economic and cultural factors can be drawn only after the pandemic [15]. Many scholars also adopted Hofstede's cultural dimensions and COVID-19 data. However, these studies did not focus on the difference of Hofstede's cultural dimensions to explore the gap between different WHO regions.

For this reason, we believe that the analysis level should be expanded to six dimensions of Hofstede's national cultural theory to further understand why the severity in the monitoring and management mechanisms of the COVID-19 pandemic in different countries of the WHO regions have a large gap. Therefore, the results of this study should be different with previous studies. For this reason, this study can improve the ability of pandemic control and serve as a basis and reference for future academics, practice, medicine, and government.

#### 3. Meta-Research Method

This study uses the narrative approach of the meta-research method [29,30] based on the WHO regions of Africa (AFRO), Europe (EURO), the Americas (AMRO), the Western Pacific (WPRO), South East Asia (SEARO), and the Eastern Mediterranean (EMRO) to integrate and

analyze COVID-19 data. Therefore, in this study we collected various data on COVID-19 in countries around the world before vaccines were administered from 22 February 2020 to 20 February 2021, including: (1) Cumulative\_cases (CC). (2) Cases—cumulative total per 1 million population (CC-PM). (3) Cases—newly reported in last 7 days (NC-7A). (4) New\_cases (NC). (5) Cumulative\_deaths (CD). (6) Deaths—cumulative total per 1 million population (CD-PM). (7) Deaths—newly reported in last 7 days (ND-7A). (8) New\_deaths (ND) (see Table 1). Then, based on the time axis and the six dimensions of Hofstede's national culture, the difference between different WHO regions were compared.

Table 1. Descriptions of the variables of this study.

Variable	Abbreviation	References
Cumulative_cases	CC	
Cases—cumulative total per 1 million population	CC-PM	
Cases—newly reported in last 7 days (average)	NC-7A	
New_cases	NC	WHO [31]; GCDL [32];
Cumulative_deaths	CD	HCHC [33]
Deaths—cumulative total per 1 million population	CD-PM	
Deaths—newly reported in last 7 days (average)	ND-7A	
New_deaths	ND	
Power Distance	PDI	
Individualism/Collectivism	IDV	
Masculinity/Femininity	MAS	II. fatada [10]
Uncertainty Avoidance	UAI	Hofstede [19]
Long-Term/Short-Term Orientation	LTO	
Indulgence/Restraint	IVR	

### 3.1. Data Collection

The expectation of this study was to divide the world into different national cultures, and to understand the impact and differences of COVID-19 in different WHO regions. In order to ensure of accuracy of the research results through the data collected in this study, it was necessary to collect relevant data and literature in a comprehensive manner. The data sources for this study include: the World Health Organization [31], the Global Change Data Lab (GCDL) [32], the Nation Center for High-Performance Computing [33], and the CSSEGISandData [34].

The scope of this research included 140 countries affected by COVID-19, according to the statistics of the WHO; however, because the data of Hofstede's six dimensions of national culture only include 117 countries, this research uses Hofstede's national culture of 117 countries as the basis for the analysis.

#### 3.2. Data Analysis

First of all, due to different spread speeds of COVID-19 in various countries around the world in the early stage, and in order to understand the differences in the impact of time on the epidemic situation in different regions of the WHO, this study mostly uses the month as the unit of analysis for the data collected from 22 February 2020, and contains the data from the following time points: 22 February 2020, 22 March 2020, 22 April 2020, 22 May 2020, 22 June 2020, 22 July 2020, 22 August 2020, 22 September 2020, 22 October 2020, 22 November 2020, 11 December 2020, 31 December 2020, 11 January 2021, 201, 201, 201, 201, 2021, 20

Secondly, we take the six dimensions of Hofstede's national culture as the units of analysis, including: power distance (PDI), individualism/collectivism (IDV), masculinity/femininity (MAS), uncertainty avoidance (UAI), long-term/short-term orientation (LTO), and indulgence/restraint (IVR).

In this study, we take the time axis and the six dimensions of Hofstede's national culture as the benchmark for analysis, and conduct correlation analyses with following eight data items from each WHO region: Cumulative\_cases, Cases—cumulative total per

1 million population, Cases—newly reported in last 7 days, New\_cases (Cases—newly reported in last 24 h), Cumulative\_deaths, Deaths—cumulative total per 1 million population, Deaths—newly reported in last 7 days, and New\_deaths (Deaths—newly reported in last 24 h). Analysis items: (1) Analysis of significant differences in the correlation of eight data from the same WHO region at different times in each of Hofstede's national cultural dimensions. (2) Analysis of significant difference in correlation of eight data from different WHO regions at the same time in each of Hofstede's national cultural dimensions.

#### 4. Results and Discussion

#### 4.1. The Mean Value of Hofstede's Six Dimensions in Each WHO Region (See Figure A1)

The mean value of Hofstede's six dimensions (PDI, IDV, MAS, UAI, LTO, and IVR) in each WHO region is based on the score of each of Hofstede's dimensions in each country. Meanwhile, some countries do not have LTO and IVR scores; thus, the LTO and IVR score of these countries has to be ignored in this study when the mean value of the LTO and IVR in each WHO region is calculated.

(1) PDI mean value: The PDI mean value of EMRO is 77.93, the PDI mean value of SEARO is 76.86, the PDI mean value of AFRO is 71.69, the PDI mean value of WPRO is 66.33, the PDI mean value of AMRO is 66.13, and the PDI mean value of EURO is 60.00. The higher the scores of the PDI, the larger the power distance of the countries [18].

All of the EMRO countries have higher PDI scores. Most of the AFRO countries have higher PDI scores, except South Africa. All of the SEARO countries and most of the WPRO countries (except Australia and New Zealand) have higher PDI scores. Most of the AMRO countries have higher PDI scores, except Argentina, Canada, Costa Rica, Jamaica, Trinidad and Tobago, and the USA; thus, this region also has a high PDI mean value too. The PDI mean value of the EURO region is also high because only 17 countries' PDI scores are lower than 50, and the other 22 countries' PDI scores are higher than 60.

(2) IDV mean value: The IDV mean value of EURO is 49.00, the IDV mean value of WPRO is 33.92, the IDV mean value of EMRO is 31.36, the IDV mean value of SEARO is 31.29, the IDV mean value of AMRO is 28.04, and the IDV mean value of AFRO is 27.50. The higher the IDV scores, the stronger the individualism of the countries [18].

Most of the EURO countries have higher IDV scores, except Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Georgia, Greece, Kazakhstan, Moldova, Montenegro, North Macedonia, Portugal, Romania, Russia, Serbia, Slovenia, Turkey, and Ukraine. Most of the WPRO countries have lower IDV scores, except Australia and New Zealand. All of the EMRO and SEARO countries have lower IDV scores. Most of the AMRO countries have lower IDV scores, except Canada and the USA. Most of the AFRO countries have lower IDV scores, except South Africa.

(3) MAS mean value: The MAS mean value of WPRO is 55.75, the MAS mean value of EMRO is 51.43, the MAS mean value of AMRO is 49.74, the MAS mean value of EURO is 44.84, the MAS mean value of AFRO is 43.75, and the MAS mean value of SEARO is 39.00. The higher the MAS scores, the higher the masculinity of the countries [18].

Most of the WPRO countries have higher MAS scores, except Fiji, South Korea, Singapore, Taiwan, and Vietnam. Most of the EMRO countries have higher MAS scores, except Egypt, Iran, Jordan, Kuwait, and Tunisia. Half of the AMRO countries have lower MAS scores, except Argentina, Canada, Colombia, the Dominican Republic, Ecuador, Jamaica, Mexico, Puerto Rico, Trinidad and Tobago, the United States, and Venezuela. Most of the EURO countries have lower MAS scores, except Albania, Armenia, Austria, Azerbaijan, Belgium, Czech Republic, Georgia, Germany, Greece, Hungary, Ireland, Italy, Kazakhstan, Luxembourg, Poland, Slovakia, Switzerland, and the United Kingdom. Most of the AFRO countries have lower MAS scores, except Burkina Faso, Ethiopia, Kenya, Nigeria, and South Africa. Most of the SEARO countries have lower MAS scores, except Bangladesh and India.

(4) UAI mean value: The UAI mean value of EURO is 75.22, the UAI mean value of AMRO is 72.22, the UAI mean value of EMRO is 71.43, the UAI mean value of AFRO is

54.26, the UAI mean value of WPRO is 47.58, and the UAI mean value of SEARO is 46.43. The higher the UAI scores, the higher the uncertainly avoidance of the countries [18].

Most of the EURO and AMRO regions' countries have higher UAI scores (except Denmark, Ireland, Sweden, the United Kingdom in EURO, and Canada, the Dominica Republic, Jamaica, Puerto Rico, and the United States in AMRO) than the WPRO and SEARO regions (except Australia, Japan, South Korea, and Taiwan in WPRO, and Bangladesh and Thailand in SEARO). At the same time, all of the EMRO countries have higher UAI scores, and the UAI scores of the AFRO countries are higher than 50 (except Mozambique, Namibia, and South Africa).

(5) LTO mean value: The LTO mean value of WPRO is 61.82, the LTO mean value of EURO is 57.71, the LTO mean value of SEARO is 47.40, the LTO mean value of AFRO is 23.83, the LTO mean value of EMRO is 22.90, and the LTO mean value of AMRO is 22.00. The higher the LTO scores, the higher the long-term orientation of the countries [18].

Most of the WPRO and EURO countries have higher LTO scores (except Australia, Malaysia, New Zealand, and the Philippines in WPRO, and Belgium, Denmark, Finland, Georgia, Greece, Iceland, Ireland, Israel, Malta, Norway, Poland, Portugal, Slovenia, Spain, and Turkey in EURO). In the SEARO region, India and Indonesia were the two countries with higher LTO scores; all of the AFRO, EMRO, and AMRO regions' countries have lower LTO mean values.

(6) IVR mean value: The IVR mean value of AMRO is 69.94, the IVR mean value of AFRO is 54.45, the IVR mean value of WPRO is 44.27, the IVR mean value of EURO is 39.11, the IVR mean value of SEARO is 32.25, and the IVR mean value of EMRO is 26.67. The higher the IVR scores, the higher the indulgence of the countries [20].

Most of the AMRO countries have higher IVR scores, except Bolivia and Peru. The IVR mean value of the AFRO region is over 50; however, the IVR scores of six countries (Algeria, Burkina Faso, Ethiopia, São Tomé and Príncipe, Tanzania, and Zambia) are lower than 50. Most of the WPRO countries have lower IVR scores, except Australia and New Zealand. Most of the EURO countries have lower IVR scores, except Australia, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, Malta, the Netherlands, Norway, Sweden, Switzerland, and the United Kingdom. All of the SEARO and EMRO countries have lower IVR scores.

#### 4.2. Hofstede's Six Dimensions and COVID-19 Data

### 4.2.1. The Power Distance (PDI) Correlation with COVID-19 Data (Figures A2, A8, A11 and A12)

During the period from 22 February 2020 to 20 February 2021, PDI only had negative significant correlation with the CC and ND-7A on 22 April 2020; PDI had negative significant correlation with NC-7A and NC on 22 March 2020. Meanwhile, PDI had negative significant correlation with CD on 22 April 2020 and 22 May 2020; PDI had negative significant correlation with CD-PM on 22 April 2020, 22 May 2020, and 22 June 2020; PDI had negative significant correlation with ND on 22 April 2020 and 31 December 2020; and PDI had negative significant correlation with CD-PM on 22 April 2020, 22 May 2020, and 22 June 2020. Finally, PDI had negative significant with CC-PM on 22 March 2020, 21 January 2021, 30 January 2021, 13 February 2021, and 20 February 2021.

These results show that the lower PDI scores could be an important factor in the increasing global human infection and even death from COVID-19 in the early stage of the COVID-19 pandemic. The lower PDI scores could be a critically significant factor leading to an increase in the CC-PM even in the first year of the COVID-19 pandemic. For this reason, the differences in each WHO region due to PDI scores will be discussed in the next section of this study.

#### PDI and the WHO Europe (EURO) Region

PDI only had negative significant correlation with CC-PM on 22 February 2020, 22 March 2020, and 22 April 2020. Meanwhile, PDI had positive significant correlation with

ND-7A on 22 July 2020 and 22 August 2020 and PDI had positive significant correlation with ND on 22 August 2020.

The results show that the lower PDI score is a critical factor in increasing the CC-PM, and a decreased ND-7A and ND of EURO people in the early stage of the COVID-19 pandemic. It is probably because, although EURO has the lowest PDI mean value, many EURO countries have relatively higher PDI scores, and many people from these countries are Christians or Catholics. Thus, even the governments recognized the severe and widespread situation of COVID-19, but people were not willing to follow the isolation policies of their governments. In contrast, the number of ND-7A and ND will decrease; it is probably because EURO has relatively sound medical systems.

#### PDI and the WHO Africa (AFRO) Region

PDI had a negative significant correlation with the CC, CD, and ND-7A from 22 June 2020 to 20 February 2021, except the CD on 22 September 2020. PDI had a negative significant correlation with CC-PM and CD-PM from 22 July 2020 to 20 February 2021, except the CD-PM on 22 September 2020. Meanwhile, PDI had a negative significant correlation with NC-7A, NC, and ND from 22 May 2020 to 20 February 2021, except the NC-7A on 20 February 2021, the NC on 22 September 2020 and 13 February 2021, and the ND on 22 October 2020 and 22 November 2020.

The AFRO region was the last place to be infected with COVID-19 and has fewer data in the first three months (22 February 2020, 22 March 2020, and 22 April 2020), and the PDI scores do not have a significant correlation with COVID-19 data. However, when the number of people infected with COVID-19 increased in the middle and end of the first year of the COVID-19 pandemic period, the higher PDI scores indeed have significantly decreased COVID-19 data from people. Therefore, the results can probably be explained because most of the AFRO countries have higher PDI scores (except South Africa, which was colonized by the Netherlands and the United Kingdom; therefore, its PDI score is 49).

#### PDI and the WHO Americas (AMRO) Region

The mean number of AMRO people infected with COVID-19 in the first year of the COVID-19 pandemic period is the highest in the world (see Figure A11). However, PDI only had a negative significant correlation with CC and NC-7A on 22 February 2020, and PDI had a negative significant correlation with CD-PM on 22 March 2020.

Most of the AMRO countries have relatively higher PDI scores; however, these countries are located in the South America. Some North American, Central American, and Caribbean countries have lower PDI scores; thus, the AMRO PDI mean value (66.13) also is reduced. The USA (United States of America) has a very low PDI score, and the USA had the highest number of people infected with COVID-19 in the first year of the COVID-19 pandemic since 22 March 2020; but, lower PDI scores in the region did increase alongside the number of people infected with COVID-19 in the early stages of the COVID-19 pandemic (22 February 2020), but has no significant correlation with COVID-19 data since 22 March 2020 in the first year of COVID-19 pandemic period. This is probably because most countries in the AMRO region have relatively higher PDI scores, and so PDI has no significant correlation with COVID-19 has no significant correlat

#### PDI and the WHO Eastern Mediterranean (EMRO) Region

PDI had a negative significant correlation with the ND-7A and ND on 22 May 2020. PDI had a negative significant correlation with the CD on 22 July 2020. PDI had a negative significant correlation with the CD-PM on 22 September 2020 and 22 October 2020. PDI had a negative significant correlation with the NC-7A and NC on 22 November 2020, 11 December 2020, and 31 December 2020. PDI had a negative significant correlation with the ND-7A and ND from 22 November 2020 to 20 February 2021, except the ND on 22 November 2020. People in this region had been infected with COVID-19 since the beginning of the COVID-19 pandemic period. All of the EMRO countries are Muslim countries, and the EMRO has the highest PDI mean value (77.93). The result is probably because people have to respect their governments' isolation policies for suppressing the spread of COVID-19; thus, the PDI indeed will decrease the COVID-19 spread and death number of this region at the end of the first year of the COVID-19 pandemic period.

In addition, many people were infected with COVID-19 and died in the end of the first year of the COVID-19 pandemic period. This is probably because there were local wars in many EMRO countries, and it was difficult to receive timely treatment for COVID-19.

#### PDI and the WHO Western Pacific (WPRO) and South East Asia (SEARO) Regions

PDI had no significant correlation with all of the CC, CC-PM, NC-7A, NC, CD, CD-PM, ND-7A, and ND through the first year of the COVID-19 pandemic period. Therefore, the PDI is not an important factor in influencing in the first year of COVID-19 in these two regions.

On the one hand, COVID-19 was first detected in mainland China (PRC); therefore, in just the first month, the mean of the CC and CD in the WPRO is the highest number of people infected with COVID-19 in the world.

On the other hand, due to the isolation policy of governments and the fact that most people from this region are Buddhist, and this region has a relatively higher PDI mean value (66.33). (Two countries in the anglosphere, Australia and New Zealand, are classified by the WHO in the WPRO region, and the PDI values of these two countries (38 and 22) are very low; thus, the PDI mean value of the WPRO is reduced by these two countries.) This shows that people will respect the order of their government's isolation policy. Therefore, very few WPRO people were infected with COVID-19 in the first year of the COVID-19 pandemic period; then, the PDI has no significant correlation with COVID-19 data in this region.

Many people were infected with COVID-19 in the end of the first year of the COVID-19 pandemic period in the SEARO region, most of people in this region are Buddhist, and this region has a very high PDI mean value (76.86); however, the PDI has no significant correlation with COVID-19 data in this region. Thus, the result is probably because the medical systems of many countries in this region are weak.

## 4.2.2. The Individualism/Collectivism (IDV) Correlation with COVID-19 Data (Figures A3, A8, A11 and A13)

During the period from 22 February 2020 to 20 February 2021, IDV had a positive significant correlation with the CC from 22 March 2020 in the first year of the COVID-19 pandemic period. IDV had a positive significant correlation with the CC-PM on 22 March 2020, 22 May 2020, and from 22 November 2020 to 20 February 2021. IDV had a positive significant correlation with the CD from 22 April 2020 in the first year of the COVID-19 pandemic period, except for 22 September 2020. IDV had a positive significant correlation with the NC-7A and NC from 22 March 2020 in the first year of the COVID-19 pandemic period, except for the NC-7A on 22 June 2020, 22 August 2020, and 22 September 2020. Meanwhile, IDV had a positive significant correlation with the CD-PM from 22 March 2020 in the first year of the COVID-19 pandemic period, except for 22 November 2020. Finally, IDV had a positive significant correlation with the ND-7A and ND from 22 March 2020 in the first year of the COVID-19 pandemic period, except for 22 November 2020. Finally, IDV had a positive significant correlation with the ND-7A and ND from 22 March 2020 in the first year of the COVID-19 pandemic period, except for 22 June 2020, 22 July 2020, 22 August 2020, and 22 September 2020, 22 October 2020, and 22 November 2020. Finally, IDV had a positive significant correlation with the ND-7A and ND from 22 March 2020 in the first year of the COVID-19 pandemic period, except for 22 June 2020, 22 July 2020, 22 August 2020, and 22 September 2020.

These results show that the higher IDV score could be a critical factor in the increase in the global number of people infected with COVID-19. For this reason, the differences in each WHO region due to IDV scores will be discussed in this study.

#### IDV and the WHO Europe (EURO) Region

IDV had a positive significant correlation with the CC on 22 February 2020, 22 March 2020, 22 April 2020, 11 January 2021, and 21 January 2021. IDV had a positive signif-

icant correlation with the CC-PM on 22 March 2020, 22 February 2020, 22 March 2020, and 22 May 2020. IDV had a positive significant correlation with the NC-7A and NC on 22 March 2020, 22 October 2020, 31 December 2020, 11 January 2021, 21 January 2021, 13 February 2021, and 20 February 2021. Additionally, IDV had a positive significant correlation with the CD from 22 April 2020 in the first year of the COVID-19 pandemic period. IDV had a positive significant correlation with the CD-PM from 22 March 2020 to 22 August 2020. Finally, IDV had a positive significant correlation with the ND-7A on 22 April 2020 and 22 May 2020, and from 11 January 2021 to 20 February 2021. IDV had a positive significant correlation with the ND on 22 April 2020, 22 May 2020, 31 December 2020, 11 January 2021, 21 January 2021, 13 February 2021, and 20 February 2021.

The results show that a higher IDV score is a critical factor in increasing the CD in the first year of the COVID-19 pandemic period, and increasing the NC-7A, NC, ND-7A, and ND at the end of the first year of the COVID-19 pandemic period. It is probably because many EURO countries have very high IDV scores, especially in West Europe, and Individualism is the dominate assertion of people from the EURO region. Thus, they cannot be restricted through wearing a mask, social distance policies, or isolation policies of their governments. For this reason, the mean number of EURO people with COVID-19 increased throughout the first year of the COVID-19 pandemic period.

#### IDV and the WHO Africa (AFRO) Region

IDV had a positive significant correlation with the CC, NC, and NC-7A from 22 March 2020 in the first year of the COVID-19 pandemic period, except the NC on 22 September 2020. IVD had a positive significant correlation with the CC-PM on 22 March 2020 and from 22 May 2020 to 20 February 2021. Meanwhile, IDV had a positive significant correlation with CD, ND-7A, and ND from 22 May 2020 to 20 February 2021, except the ND-7A on 22 September 2020 and the ND on 22 October 2020. Finally, IDV had a positive significant correlation with the CD-PM on 22 June 2020, 22 July 2020, and 22 August 2020, and from 22 October 2020 to 20 February 2021.

The mean number of AFRO people infected with COVID-19 is relatively lower than other WHO regions, probably because the governments of the AFRO region cannot provide valid Polymerase chain reactions (PCRs) and quick tests. Even though most people from the AFRO region emphasize collectivistic culture, this region has the lowest IDV score, and the number of people infected with COVID-19 will decrease. In light of this reason, IDV was a significant factor throughout the first year of the COVID-19 pandemic period.

#### IDV and the WHO Americas (AMRO) Region

IDV had a positive significant correlation with the CC, NC-7A, and NC from 22 February 2020 in the first year of the COVID-19 pandemic period. IDV had a positive significant correlation with the CC-PM on 22 February 2020, 22 March 2020, 22 April 2020, 22 May 2020, 21 January 2021, and 13 February 2021. Meanwhile, IDV had a positive significant correlation with the CD from 22 February 2020 in the first year of the COVID-19 pandemic period. IDV had a positive significant correlation with the CD from 22 February 2020 in the first year of the COVID-19 pandemic period. IDV had a positive significant correlation with the ND-7A and ND on 22 March 2020, 22 April 2020, and 22 May 2020, the ND-7A from 22 September 2020 to 22 February 2020. Finally, IDV had a positive significant correlation with the CD-PM on 22 March 2020 and 22 April 2020.

Most of the AMRO countries had a large number of people infected with COVID-19 in the first year of the COVID-19 pandemic period, and this region's IDV score range of each country is 6~91. Therefore, a higher IDV score is indeed a very critical factor in increasing the number of people infected with COVID-19 in the AMRO region through the first year of the COVID-19 pandemic period.

#### IDV and the WHO Eastern Mediterranean (EMRO) Region

IDV only had a negative significant correlation with the NC-7A and NC on 22 June 2020. IDV had a positive significant correlation with the CD-PM at the end of the first year of the COVID-19 pandemic period (from 11 January 2021 to 20 February 2021).

People in this region were infected with COVID-19 from the beginning of the COVID-19 pandemic period. All of the EMRO countries are Muslim countries, and the EMRO has a relatively low IDV mean value (31.36). The lower IDV score increases the NC-7A and NC on 22 June 2020 probably because some countries have many people from Western societies, but the phenomenon was decreased at the end of the first year of the COVID-19 pandemic period. Finally, in the EMRO region people do not emphasize individualism; then, the CD-PM has indeed decreased at the end of the first year of the COVID-19 pandemic period.

#### IDV and the WHO Western Pacific (WPRO) and South East Asia (SEARO) Regions

IDV had no significant correlation with any of the CC, CC-PM, NC-7A, NC, CD, CD-PM, ND-7A, and ND through the first year of the COVID-19 pandemic period. Therefore, the IDV will not be an important factor in influencing the first year of the COVID-19 pandemic period in these two regions.

Because of the isolation policies of governments and most people of these two regions are Buddhist, this region has a relatively low IDV mean value (WPRO: 33.92, SEARO: 31.29); thus, the people with collectivistic cognition have sacrificed their own interests to protecting their family, relatives, friends, and society. Therefore, far fewer people were infected with COVID-19 in this region in the first year of the COVID-19 pandemic; therefore, the PDI has no significant correlation with COVID-19 data in this region. (Two countries in the anglosphere, Australia and New Zealand, are classified by the WHO in the WPRO region, and the IDV values of these two countries (90 and 79) are very high; thus, the IDV mean value of WPRO is increased by these two countries.)

4.2.3. The Masculinity/Femininity (MAS) Correlation with COVID-19 Data (Figures A4, A9, A11 and A14)

During the period from 22 February 2020 to 20 February 2021, MAS had a positive significant correlation with the ND-7A on 22 November 2020, 31 December 2020, 11 January 2021, 21 January 2021, and 30 January 2021. MAS had a positive significant correlation with the ND on 22 November 2020, 31 December 2020, and 21 January 2021.

These results show that the higher MAS scores increase global COVID-19 deaths only at the end of the first year of the COVID-19 pandemic period; therefore, MAS is probably not a critical factor in influencing the global number of people to be infected with COVID-19 in the first year of the COVID-19 pandemic period. The differences in each WHO region due to MAS scores will be discussed in the next sections of this study.

#### MAS and the WHO Africa (AFRO) Region

MAS had a positive significant correlation with the NC-7A on 22 August 2020, 22 September 2020, 22 October 2020, 22 November 2020, 13 February 2021, and 20 February 2021. Meanwhile, MAS had a positive significant correlation with the NC on 22 August 2020, 22 September 2020, 22 October 2020, 22 November 2020, 11 December 2020, and 20 February 2021. Finally, MAS had a positive significant correlation with the ND on 22 August 2020, 22 September 2020, 22 October 2020, 22 October 2020, and 20 February 2021.

A high MAS score means that the society emphasizes the traditional concept that masculinity should be valued, and most countries in AFRO have relatively lower MAS scores of the six WHO regions. Therefore, only few dates of higher MAS scores have increased the NC-7A, NC, and ND in the middle of the first year of the COVID-19 pandemic period, and MAS only increases the NC-7A and NC at the end of the first year of the COVID-19 pandemic period in the AFRO region. Thus, MAS is not an important factor in influencing the number of AFRO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

#### MAS and the WHO Western Pacific (WPRO) Region

MAS had a positive significant correlation with the NC-7A on 22 November 2020, 11 December 2020, 31 December 2020, 11 January 2021, and 21 January 2021. MAS had a positive significant correlation with the NC on 22 November 2020, 11 January 2021, and 21 January 2021. Meanwhile, MAS only had a positive significant correlation with the CD on 20 February 2021. Finally, MAS had a positive significant correlation with the ND-7A on 22 April 2020 and 22 May 2020, and from 22 November 2020 to 20 February 2021. MAS had a positive significant correlation with the ND-7A on 12 April 2020 and 22 May 2020, and from 22 November 2020 to 20 February 2021. MAS had a positive significant correlation with the ND on 22 April 2020, 22 May 2020, and 11 December 2020, and from 11 January 2021 to 13 February 2021.

The higher MAS score increases the NC-7A, NC, ND-7A, and ND at the end of the first year of the COVID-19 pandemic period, increases the ND-7A and ND in the beginning of the first year of the COVID-19 pandemic period, and increases the CD in the last month of the first year of the COVID-19 pandemic period. The MAS mean value is 55.75 in the WPRO region, which has the highest value; thus, many countries highly emphasized the traditional concept that masculinity should be valued in the WPRO region. For this reason, this region has the most influential COVID-19 data by MAS of the six WHO regions. Therefore, the MAS score is probably a factor in increasing COVID-19 data of this region, but not a critical factor in the first year of the COVID-19 pandemic period.

#### MAS and the WHO South East Asia (SEARO) Region

MAS had a positive significant correlation with the CCPM on 22 July 2020 and 22 August 2020. Meanwhile, MAS had a positive significant correlation with the CD-PM from 22 June 2020 to 22 October 2020. Finally, MAS only had a positive significant correlation with the ND-7A and ND on 22 May 2020.

The MAS mean value is 39.00 for the SEARO region, which was the lowest value; thus, only a few countries emphasized the traditional concept that masculinity should be valued in the SEARO region. Therefore, the MAS score only increases the CD-PM in the first five months, the CC in the middle two months, and the ND-7A and ND on 22 May 2020. Therefore, MAS is also not a critical factor in increasing COVID-19 data in this region in the first year of the COVID-19 pandemic period.

#### MAS and the WHO Eastern Mediterranean (EMRO) Region

The MAS mean value (51.43) in EMRO is second highest of the six WHO regions, and these countries highly emphasized the traditional concept that masculinity is valued too. However, MAS only had a negative significant correlation with the NC on 22 August 2020, and MAS is indeed not a significant factor in increasing the number of EMRO people infected with COVID-19.

#### MAS and the WHO Europe (EURO) and Americas (AMRO) Regions

MAS had no significant correlation with any of the CC, CC-PM, NC-7A, NC, CD, CD-PM, ND-7A, and ND through the first year of the COVID-19 pandemic period. Therefore, MAS is not an important factor in influencing the first year of COVID-19 data in these two regions.

The results show that the MAS score is not a critical factor in influencing all of the COVID-19 data in the first year of the COVID-19 pandemic period in these two regions.

### 4.2.4. The Uncertainty Avoidance (UAI) Correlation with COVID-19 Data (Figures A5, A9, A11 and A15)

During the period from 22 February 2020 to 20 February 2021, UAI only had a negative significant correlation with the CC-PM on 22 February 2020, but UAI had a positive significant correlation with the CC-PM from 22 July 2020 to 20 February 2021. Meanwhile, UAI had a positive significant correlation with the ND-PM from 22 August 2020 to 20 February 2021. UAI means the society's tolerance for ambiguity, and a higher UAI society can tolerate more ambiguity. These results show that a lower UAI score increases the global number of people infected with COVID-19 at the first month of the COVID-19 pandemic period. However, since 22 July 2020 (a few months after 22 February 2020), a higher UAI score significantly increased the correlation with the number of people infected with COVID-19 and death in the first year of the COVID-19 pandemic period. It is necessary to explore why UAI trends in the opposite direction to the global number of people infected with COVID-19, and the differences in each WHO region due to UAI scores will be discussed in the next section of this study.

#### UAI and the WHO Africa (AFRO) Region

UAI only had a positive significant correlation with the CC-PM and CD-PM on 22 April 2020 and 22 May 2020. Meanwhile, UAI only had a positive significant correlation with the CD on 22 March 2020 and 22 April 2020. UAI only had a positive significant correlation with the ND-7A on 22 March 2020. UAI only had a positive significant correlation with the NC on 22 April 2020.

The UAI mean value (54.56) of AFRO is relatively low for the six WHO regions. This means that AFRO societies are not societies which tolerate ambiguity. Meanwhile, the relatively low UAI score has only increased some COVID-19 data in the beginning three months of the first year of the COVID-19 pandemic period. Therefore, UAI is not an important factor in influencing the number of AFRO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

#### UAI and the WHO Western Pacific (WPRO) Region

UAI only had a positive significant correlation with the NC-7A on 31 December 2020. Meanwhile, UAI only had a positive significant correlation with the ND-7A on 31 December 2020 and 11 January 2021. UAI only had a positive significant correlation with the ND on 22 April 2020, 11 December 2020, and 31 December 2020.

All of the global countries did not have enough knowledge for people to avoid being infected with COVID-19 at that time. The WPRO region has a relatively low UAI mean value (47.58) for the six WHO regions, and this region cannot tolerate ambiguity. However, because COVID-19 is a horrible disease, the governments in this region provided lockdown strategies to reduce the spread of COVID-19. Meanwhile, the lower UAI score of this region only decreases some of the COVID-19 data in the first year, and the results show that the UAI score is probably not an important factor in increasing the number of people infected with COVID-19 in this region in the first year of the COVID-19 pandemic period.

#### UAI and the WHO South East Asia (SEARO) Region

UAI only had a positive significant correlation with the CC-PM on 22 April 2020. Meanwhile, the UAI mean value (46.43) of the SEARO region is the lowest of the six WHO regions, but a lower UAI only slightly decreases the number of people in SEARO infected with COVID-19 in the first year of the COVID-19 pandemic period; thus, UAI is not an important factor for COVID-19.

# UAI and the WHO Europe (EURO), Americas (AMRO), and Eastern Mediterranean (EMRO) Regions

UAI only had a positive significant correlation with the ND-7A and ND on 22 August 2020 in the EURO region, and the UAI score had no significant correlation with any of the CC, CC-PM, NC-7A, NC, CD, CD-PM, ND-7A, and ND throughout the first year of the COVID-19 pandemic period in both the AMRO and EMRO regions.

The societies of EURO, AMRO, and EMRO could tolerate the ambiguity of COVID-19 in the first COVID-19 pandemic period, because these three regions have the highest UAI mean values (EURO: 75.22; AMRO: 72.22; EMRO: 71.43) in the six WHO regions. However, the higher UAI only increases some of the COVID-19 data in the EURO region, and does

not influence the COVID-19 data in the AMRO and EMRO regions. In light of this, the UAI can be ignored as a factor in influencing the first year of the COVID-19 pandemic period in these three WHO regions.

## 4.2.5. The Long-Term/Short-Term Orientation (LTO) Correlation with COVID-19 Data (Figures A6, A10, A11 and A16)

During the period from 22 February 2020 to 20 February 2021, LTO had a positive significant correlation with the CC and NC on 22 March 2020. Meanwhile, LTO had a positive significant correlation with the CC on 22 February 2020, and UAI had a positive significant correlation with the CC-PM from 11 December 2020 to 20 February 2021. LTO is based on the Confucian ideological dynamism. When people look to the future, they believe that the traditions of the past will change with the times, and observe things from a dynamic point of view, so there will be room for everything. These results show that a higher LTO score significantly increases, but does not decrease, the global number of people infected with COVID-19 in the last three months of the first year of the COVID-19 pandemic period, and only slightly increases the global number of people infected with COVID-19 in the first two months. The differences in each WHO region due to LTO scores will be discussed in the next section of this study.

#### LTO and the WHO Europe (EURO) Regions

LTO only has a negative significant correlation with the CC-PM on 22 May 2020. The EURO region has a relative higher LTO mean value (57.71) because of many eastern EURO countries who have different cultures than western EURO. Thus, they have higher LTO scores than western EURO, and they look to the future more, believing that the traditions of the past will change with the times, and observing things from a dynamic point of view. Meanwhile, the results show that the higher LTO only decreases the number of EURO people infected with COVID-19 in the third month of the COVID-19 pandemic period. However, the LTO is not an important factor in influencing the number of EURO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

#### LTO and the WHO Americas (AMRO) Region

LTO only had a positive significant correlation with NC-7A on 22 June 2020. LTO had a positive significant correlation with the NC on 22 May 2020 and 22 June 2020. Meanwhile, LTO had a positive significant correlation with the ND-7A on 22 June 2020, 22 July 2020, and 22 August 2020. LTO had a positive significant correlation with the ND on 22 June 2020 and 22 June 2020.

The AMRO region has the lowest LTO mean value (22.09) in the six WHO regions, and AMRO people pay more attention to current interests and pleasures; they hope to see results in a short time, and quick success is more urgent and cannot be delayed. However, the higher LTO score only slightly increased the number of AMRO people infected with COVID-19 and deaths in the first few months of the COVID-19 pandemic period. Therefore, the LTO is indeed not an important factor in influencing the number of AMRO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

#### LTO and the WHO South East Asia (SEARO) Region

LTO only had a positive significant correlation with the CD-PM on 13 February 2021 and 20 February 2021. The SEARO region has a relative higher LTO mean value (47.40) for the six WHO regions, and SEARO people pay more attention to the future, believing that the traditions of the past will change with the times, and observing things from a dynamic point of view. However, the higher LTO score significantly increases, but not decreases, the number of deaths of people from the SEARO region. Meanwhile, the results show that the LTO score is indeed not an important factor in influencing the number of SEARO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

#### LTO and the WHO Eastern Mediterranean (EMRO) Region

LTO only had a positive significant correlation with the NC-7A and NC on 22 June 2020. The EMRO region has a relative low LTO mean value (22.90) for the six WHO regions, and EMRO people pay more attention to current interests and pleasures; they hope to see results in a short time, and quick success is more urgent and cannot be delayed. However, the higher LTO score only slightly increased the number of EMRO people infected with COVID-19 in the fourth month of the COVID-19 pandemic period. Therefore, the LTO is indeed not an important factor in influencing the number of EMRO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

#### LTO and the WHO Africa (AFRO) and Western Pacific (WPRO) Regions

LTO had no significant correlation with any of the CC, CC-PM, NC-7A, NC, CD, CD-PM, ND-7A, and ND throughout the first year of the COVID-19 pandemic period.

The AFRO region has a relatively low LTO mean value (23.83); therefore, AFRO people pay more attention to current interests and pleasures; they hope to see results in a short time, and quick success is more urgent and cannot be delayed. In contrast, the WPRO region has the highest LTO mean value (61.82); therefore, WPRO people look to the future more, believing that the traditions of the past will change with the times, and observing things from a dynamic point of view. The results show that LTO score is indeed not an important factor in influencing the number of people from these two regions infected with COVID-19 in the first year of the COVID-19 pandemic period.

## 4.2.6. The Indulgence/Restraint (IVR) Correlation with COVID-19 Data (Figures A7, A10, A11 and A17)

During the period from 22 February 2020 to 20 February 2021, IVR only had a positive significant correlation with the ND on 21 January 2021.

These results show that a lower IVR score increases the global death toll because of COVID-19 in the penultimate month of the first COVID-19 pandemic year. Indulgence represents the basic normal desire to enjoy the pleasures of life and allow unrestrained satisfaction; therefore, the results of this study show that the higher IVR score does not increase the global number of people infected with COVID-19. Meanwhile, the differences in each WHO region due to IVR scores will be discussed in the next section of this study.

#### IVR and the WHO Europe (EURO) Region

IVR only had a positive significant correlation with the CC-PM on 22 March 2020, 22 May 2020, and 22 June 2020. Meanwhile, IVR only had a positive significant correlation with the CD-PM from 22 May 2020 to 22 August 2020.

Although EURO has a relatively low IVR mean value (39.11), the higher IVR score increases some of the COVID-19 data of the EURO people in the beginning half of the first year of the COVID-19 pandemic period. Therefore, the IVR score is not an important factor in influencing the number of EURO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

#### IVR and the WHO South East Asia (SEARO) Region

IVR only had a negative significant correlation with CC-PM on 22 July 2020. Although SEARO has a relatively low IVR mean value (32.25), the higher IVR score still increases some of the COVID-19 data from the SEARO people in the fifth month of the COVID-19 pandemic period. Therefore, the IVR score is not an important factor in influencing the number of SEARO people infected with COVID-19 in the first year of the COVID-19 pandemic period.

IVR and the WHO Africa (AFRO), Americas (AMRO), Western Pacific (WPRO), and Eastern Mediterranean (EMRO) Regions

IVR had no significant correlation with any of the CC, CC-PM, NC-7A, NC, CD, CD-PM, ND-7A, and ND throughout the first year of the COVID-19 pandemic period.

On the one hand, the AMRO region has the highest IVR mean value (69.94), the AFRO region has a relatively high IVR mean value (54.45), and the WPRO region has a relatively high IVR mean value (44.27); on the other hand, the EMRO region has the lowest IVR mean value (26.67). Meanwhile, the IVR score does not impact any of the COVID-19 data in these four WHO regions.

The results show that the societies either emphasize the basic normal desire to enjoy the pleasures of life and allow unrestrained satisfaction (high IVR score), or control the enjoyment of life and manage with strict social norms (low IVR score); the IVR score is indeed not an important factor in influencing the COVID-19 data of these four WHO regions in the first year of the COVID-19 pandemic period.

4.2.7. Summary Discussion of Hofstede's Six Dimensions and COVID-19 Data (See Figures A8–A10)

(1) Global: IDV has the highest correlation with COVID-19 data (all eight COVID-19 data in 12 months), PDI has the second highest correlation with COVID-19 data (all eight COVID-19 data in seven months), then followed by UAI (CC-PM and DC-PM in nine months), MAS (ND-7A and ND in three months), and LTO (CC, CC-PM and NC in five 5 months). Finally, IVR only has an ND correlation with COVID-19 data in one month.

(2) EURO region: IDV has the highest correlation with COVID-19 data (all eight COVID-19 data in 13 months), PDI has the second highest correlation with COVID-19 data (CC-PM, ND-7A, and ND in five months), then followed by IVR (CC-PM and DC-PM in five months), UAI (ND-7A and ND in one month), and LTO (CC-PM in one month). Finally, MAS has no correlation with any of the COVID-19 data.

(3) AFRO region: IDV has the highest correlation with COVID-19 data (all eight COVID-19 data in 12 months), PDI has the second highest correlation with COVID-19 data (all eight COVID-19 data in ten months), then followed by MAS (NC-7A, NC, and ND in five months), and UAI (CC-PM, CD, CD-PM, ND-7A, and ND in three months). Finally, LTO and IVR have no correlation with any of the COVID-19 data.

(4) AMRO region: IDV has the highest correlation with COVID-19 data (all eight COVID-19 data in 13 months), then followed by PDI (CC, NC-7A, NC, and CD-PM in two months), and LTO (NC-7A, NC, ND-7A, and ND in four months). Finally, MAS, UAI, and IVR have no correlation with any of the COVID-19 data.

(5) WPRO region: MAS has the highest correlation with COVID-19 data (NC-7A, NC, CD, ND-7A, and ND in six months), and UAI (NC-7A, NC, ND-7A, and ND in three months). Finally, PDI, IDV, MAS, LTO, and IVR have no correlation with any of the COVID-19 data.

(6) SEARO region: MAS has the highest correlation with COVID-19 data (CC-PM, CD-PM, ND-7A, and ND in six months), then followed by LTO (CD-PM in one month), UAI (CC-PM in one month), and IVR (CC-PM in one month). Finally, PDI and IDV have no correlation with any of the COVID-19 data.

(7) EMRO region: PDI has the highest correlation with COVID-19 data (CC-PM, NC-7A, NC, CD, ND-7A, and ND in eight months), then followed by IDV (NC-7A, NC, and CD-PM in three months), LTO (NC-7A and NC in one month), and MAS (NC in one month). Finally, UAI and IVR have no correlation with any of the COVID-19 data.

#### 5. Contributions

#### 5.1. For Academic

Although many scholars [4,10,13,24,27] have studied the correlation between Hofstede's national culture and COVID-19, some scholars only focus on the Individualism and Uncertainty Avoidance dimensions, and some scholars [3,6,8,9,11,12,14,15,17] did not focus on the difference of Hofstede's cultural dimensions to explore the gap between different WHO regions. In fact, this study found Hofstede's six culture dimensions to significantly affect the COVID-19 data of different WHO regions in different ways, and it is a very critical insight in the academic field. Thus, the academic contributions will be discussed in the following sections.

Firstly, IDV is the most significant factor; the higher IDV score not only increases all of the global COVID-19 data, but also increases the EURO, AFRO, and AMRO people, and increases the CD-PM of the EMRO people. Therefore, in a society of emphasizing individualism, their people do increase their chances of becoming infected with COVID-19. However, the higher IDV decreases the NC-7A and NC of the EMRO people, and the result is probably because there are many countries in this region still in local wars. Meanwhile, the results are consistent with the studies of [4,10], and all of the global WHO data indeed prove the results of previous studies to be correct.

Secondly, PDI is the second important factor; the higher PDI score decreases all of the global and AFRO COVID-19 data, and decreases some of the COVID-19 data of the AMRO people. Thus, a society with higher power distance indeed decreases their number of people infected with COVID-19. Meanwhile, although PDI decreases some COVID-19 data of the EURO and EMRO people, higher PDI increases the ND-7A and ND in EURO, and CC-PM in EMRO. The result is probably because the medical systems of the EURO region were not capable of curing many COVID-19-infected people in the first few months of the first COVID-19 pandemic year, and people could not respect social distancing or the isolation strategies because of local wars in some EMRO countries. The PDI dimension result of this study is a critical new insight.

Thirdly, higher MAS is the third important factor; the higher MAS increases some COVID-19 data of the WPRO people, and increases some COVID-19 data of the AFRO, SEARO, and global people. Thus, there is only an impact on one COVID-19 datum of the EMRO people. Therefore, in a society of emphasizing masculinity, their people indeed increase the chances of being infected with COVID-19, but the higher MAS influence is relatively lower than the IDV and PDI. The result of the MAS dimension of this study also is an important new insight.

Fourthly, UAI is the fourth factor; the higher UAI only increases some of the COVID-19 cases of global, WPRO, AFRO, and EURO people. Thus, there is only an impact on one COVID-19 datum of the SEARO people. In addition, UAI is not an important factor in increasing the number of people infected with COVID-19; however, the result still proved that global WHO data is indeed consistent with previous studies [13,24,27].

Fifthly, LTO is the fifth factor; the higher LTO only increases some COVID-19 data of global, AMRO, and EMRO people, and only increases one COVID-19 datum of the EURO and SEARO people. Meanwhile, LTO is not an important factor in increasing the number of people infected with COVID-19, but the result of the LTO still is worthy of future reference for scholars. The result of the LTO dimension of this study is another new insight.

Sixthly, IVR is the last factor; the higher IVR increases some COVID-19 data of EURO people. In contrast, it decreases the COVID-19 factor of the global and SEARO people. IVR is a factor to be ignored in this study. However, the two opposite results indeed need to be explored in the future. The result of the IVR dimension of this study is also a new insight.

Finally, the AFRO region is the most important region where COVID-19 data has a higher correlation with PDI and IDV than MAS and UAI, followed by EURO and AMRO, where COVID-19 data have a higher correlation with PDI than IDV, IVR, UAI, and LTO in the EURO region, and than IDV and LTO in the AMRO region. Then, the EMRO region follows the above three regions where COVID-19 data have a higher correlation with PDI than IDV, LTO, MAS. Finally, WPRO and SEARO COVID-19 data have a higher correlation with MAS than UAI in the WPRO region, and UAI and LTO in the SEARO region.

#### 5.2. For Practice

Based on the results of this study, governments and people in different cultural regions can learn how to more effectively deal with the spread of infectious diseases in the future. Thus, in the following section the contributions for practice will be discussed.

Firstly, a higher IDV score indeed significantly increases many COVID-19 data in many WHO regions (AFRO, EURO, AMRO, and EMRO), and the government of an individualistic society can request the temporary sacrifice of personal freedom to protect the health and safety of the public.

Secondly, a higher PDI score also significantly decreases many COVID-19 data in many WHO regions (AFRO, EURO, AMRO, and EMRO), and a society of lower power distance can be requested to temporarily abide by the government's policy against infectious diseases to protect the health and safety of the public.

Thirdly, a higher MAS significantly increases some or a few COVID-19 data in many regions (EURO, WPRO, SEARO, and EMRO), and a government in a high-masculinity society can propagate the characteristics of masculinity among the people to protect the vulnerable and cooperate with the government's policy of reducing infectious diseases to protect the health and safety of the public.

Fourthly, a higher UAI only slightly increases a few COVID-19 data in many regions (EURO, AFRO, WPRO, and SEARO), and a society with a higher UAI score expects a reduction in uncertainty which can calm people's minds. The UAI is not an important factor in increasing COVID-19 data; however, governments still can use the UAI characteristic to reduce the uncertainty in everyone's mind, and people should cooperate with the government's policy of reducing infectious diseases to ensure the health and safety of the public.

Fifthly, a higher LTO only slightly increases a few COVID-19 data in many regions (EURO, AMRO, SEARO, and EMRO), and people in a high LTO society like to look to the future, believing that the traditions of the past will change with the times, and observing things from a dynamic point of view, so there will be room for everything. Although the LTO is not an important factor in increasing COVID-19 data, governments still have a responsibility to request that people try their best to cooperate with their policies for reducing infectious diseases to ensure the health and safety of the public.

Sixthly, a higher IVR only slightly increases two COVID-19 data in the EURO region, and decreases one COVID-19 datum in the SEARO region. When people wish to enjoy the pleasures of life, have indulgent thoughts, and become a society of unrestrained satisfaction, the higher IVR of course increases COVID-19; however, why this result only exists in the EURO region, but has a contrasting result in SEARO, is a question to explore in the future. Even though IVR is a negligible factor in the spread of COVID-19 in society, governments should also pay attention to the possible harm of IVR in the spread of infectious diseases in the future, and propose effective strategies of prevention and control.

Seventhly, the governments of the AFRO region should pay special attention to the correlation between PDI, IDV, and infectious diseases, and dealing with these two aspects can achieve effective results in inhibiting it. Meanwhile, the governments of EURO and AMRO should pay special attention to the correlation between PDI and infectious diseases. From then on, effective results can be achieved to curb it. Then, even though the correlation between EMRO's COVID-19 data and Hofstede's cultural dimensions is not great, governments should still pay attention to the possible correlation between PDI and infectious diseases as an effective containment strategy. Finally, although the correlation between COVID-19 and Hofstede's cultural dimensions in WPRO and SEARO are so small that it can be ignored, governments should also pay attention to the possible correlation between MAS and infectious diseases as an effective containment strategy.

#### 6. Conclusions

Global data have been collected in this study to explore the correlations between Hofstede's six cultural dimensions (PDI, IDV, MAS, UAI, LTO, and IVR) and COVID-19 data in the first year of the COVID-19 pandemic period. It was found that Hofstede's six culture dimensions have significantly affected the COVID-19 data of different WHO regions in different ways. In which, four of Hofstede's dimensions, PDI, MAS, LTO, and IVR, are worthy of further study by scholars. The results of this study will also be of greater help to global governments and medical institutions in formulating policies to suppress infectious diseases in the future.

COVID-19 data were collected from 240 countries in this study; however, Hofstede only collected data from 117 countries. Therefore, COVID-19 data from 123 countries have to be ignored in the current study, and this is the first limitation of this study. Meanwhile, because some countries are still at war, some countries have no sound medical systems, and PCR tests might be not widely available in the first year; all of these factors will influence the WHO in the collection of COVID-19 data, and then the results of this study also have bias too. This is the second limitation of this study. In addition, some of Hofstede's cultural dimensions (e.g., PDI has two opposite (positive/negative) significant correlations with COVID-19 data in the same/different WHO regions at the same time (e.g., PDI in EURO (+/-) and EMRO (+/-); IDV in EMRO (+/-); LTO in EURO (-) is different with AMRO (+), SEARO (+), and EMRO (+); IVR in SEARO (-) is different with EURO (+)), and the conflict and opposing results are worthy of further study by scholars. Because of the isolation policy in the first year of the COVID-19 pandemic period, this study had no chance to collect more detailed data for each country to explore the reason. This is the third limitation of this study. Meanwhile, the classification of the WHO regions is for the convenience of the WHO management; thus, many different cultural countries/areas exist in the same WHO region, and the highest or the lowest score of Hofstede's six cultural dimensions exist in the same WHO region (e.g., 11 and 100 of PDI and five and 100 of MAS in EURO; six and 91 of IDV in AMRO). This is the fourth limitation of this study. For this reason, it is necessary to adopt a more appropriate classification to classify countries/areas in future study. Finally, IT is indeed a critical factor in inhibiting the spread of COVID-19, but the relationship between IT and COVID-19 data was not analyzed in this study, and this is the fifth limitation of this study.

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### Appendix A

Country	WHO Regions	PDI	IDV	MAS	UAI	LTO	IVR	Country	WHO Regions	PDI	IDV	MAS	UAI	LTO	IVR
Egypt	Eastern Mediterranean	70	25	45	80	7	4	Argentina	Americas	49	46	56	86	20	62
Iran	Eastern Mediterranean	58	41	43	59	14	40	Bolivia	Americas	78	10	42	87	25	46
Iraq	Eastern Mediterranean	95	30	70	85	25	17	Brazil	Americas	69	38	49	76	44	59
Jordan	Eastern Mediterranean	70	30	45	65	16	43	Canada	Americas	39	80	52	48	36	68
Kuwait	Eastern Mediterranean	90	25	40	80	na	na	Chile	Americas	63	23	28	86	31	68
Lebanon	Eastern Mediterranean	75	40	65	50	14	25	Colombia	Americas	67	13	64	80	13	83
Libya	Eastern Mediterranean	80	38	52	68	23	34	Costa Rica	Americas	35	15	21	86	na	na
Morocco	Eastern Mediterranean	70	46	53	68	14	25	Dominican Republic	Americas	65	30	65	45	13	54
Pakistan	Eastern Mediterranean	55	14	50	70	50	0	Ecuador	Americas	78	8	63	67	na	na
Qatar	Eastern Mediterranean	93	25	55	80	na	na	El Salvador	Americas	66	19	40	94	20	89
Saudi Arabia	Eastern Mediterranean	95	25	60	80	36	52	Guatemala	Americas	95	6	37	98	na	na
Syria	Eastern Mediterranean	80	35	52	60	30	na	Honduras	Americas	80	20	40	50	na	na
Tunisia	Eastern Mediterranean	70	40	40	75	na	na	Jamaica	Americas	45	39	68	13	na	na
United Arab Emirates	Eastern Mediterranean	90	25	50	80	na	na	Mexico	Americas	81	30	69	82	24	97
EMRO Me	ean Value	77.93	31.36	51.43	71.43	22.90	26.67	Panama	Americas	95	11	44	86	na	na
Bangladesh	South-East Asia	80	20	55	60	47	20	Paraguay	Americas	70	12	40	85	20	56
Bhutan	South-East Asia	94	52	32	28	na	na	Peru	Americas	64	16	42	87	25	46
India	South-East Asia	77	48	56	40	51	26	Puerto Rico	Americas	68	27	56	38	0	90
Indonesia	South-East Asia	78	14	46	48	62	38	Surinam	Americas	85	47	37	92	na	na
Nepal	South-East Asia	65	30	40	40	na	na	Trinidad and Tobago	Americas	47	16	58	55	13	80
Sri Lanka	South-East Asia	80	35	10	45	45	na	United States	Americas	40	91	62	46	26	68
Thailand	South-East Asia	64	20	34	64	32	45	Uruguay	Americas	61	36	38	98	26	53
SEARO M	ean Value	76.86	31.29	39.00	46.43	47.40	32.25	Venezuela	Americas	81	12	73	76	16	100
Algeria	Africa	80	35	35	70	26	32	AMRO Mean V		66.13	28.04	49.74	72.22	22.00	69.94
Angola	Africa	83	18	20	60	15	83	Albania	Europe	90	20	80	70	61	15
Burkina Faso	Africa	70	15	50	55	27	18	Armenia	Europe	85	22	55	88	61	25
Ethiopia	Africa	70	20	65	55	na	46	Austria	Europe	11	55	79	70	60	63
Ghana	Africa	80	15	40	65	4	72	Azerbaijan	Europe	85	22	50	88	61	22
Kenya	Africa	70	25	60	50	na	na	Belarus	Europe	95	25	20	95	81	15
Malawi	Africa	70	30	40	50	na	na	Belgium	Europe	65	75	54	94	21	57
Mozambique	Africa	85	15	38	44	11	80	Bosnia and Herzegovina	Europe	90	22	48	87	70	44
Namibia	Africa	65	30	40	45	35	na	Bulgaria	Europe	70	30	40	85	69	16
Nigeria	Africa	80	30	60	55	13	84	Croatia	Europe	73	33	40	80	58	33
São Tomé and Príncipe	Africa	75	37	24	70	32	41	Czech Republic	Europe	57	58	57	74	70	29
Senegal	Africa	70	25	45	55	25	па	Denmark	Europe	18	74	16	23	35	70
Sierra Leone	Africa	70	20	40	50	na	na	Estonia	Europe	40	60	30	60	82	16
South Africa	Africa	49	65	63	49	34	63	Finland	Europe	33	63	26	59	38	57
Tanzania	Africa	70	25	40	50	34	38	France	Europe	68	71	43	86	63	48
Zambia	Africa	60	35	40	50	30	42	Georgia	Europe	65	41	55	85	38	32
AFRO Me	an Value	71.69	27.50	43.75	54.56	23.83	54.45	Germany	Europe	35	67	66	65	83	-40
Australia	Western Pacific	38	90	61	51	21	71	Greece	Europe	60	35	57	100	45	50
China	Western Pacific	80	20	66	30	87	24	Hungary	Europe	46	80	88	82	58	31
Fiji	Western Pacific	78	14	46	48	na	na	Iceland	Europe	30	60	10	50		67
Hong Kong													50	28	07
riong Kong	Western Pacific	68	25	57	29	61	17	Ireland	Europe	28	70	68	35	28 24	65
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		_	25	57					A	28	_	68	35	24	65
Japan	Western Pacific	54	25 46	57 95	92	88	42	Israel	Europe	28 13	54	68 47	35 81	24 38	65 na
Japan Malaysia	Westem Pacific Westem Pacific	54 100	25 46 26	57 95 50	92 36	88 41	42 57	Israel Italy	Europe Europe	28 13 50	54 76	68 47 70	35 81 75	24 38 61	65 <u>na</u> 30
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Japan Malaysia New Zealand Philippines South Korea Singapore Taiwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Luxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia North Macedonia Poland Poland Portugal Romania	Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe	28 13 50 88 44 42 40 56 90 90 88 88 38 90 31 31 68 63 90	54           76           20           70           60           59           27           24           80           22           69           60           27           30	68 47 70 50 9 19 50 47 39 48 48 44 45 8 64 31 42	35 81 75 88 63 65 70 96 95 90 53 87 50 93 99 99 99	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 52	655 na 300 222 133 166 566 666 666 666 668 355 555 209 203 33 200
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Japan Malaysia New Zealand Philippines South Korea Singapore Talwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lidhuania Luxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia Norway Poland Portugal Romania Russia Serbia	Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe Europe	28 13 50 88 44 42 40 56 90 90 88 38 38 38 90 93 86	54 76 20 70 60 60 59 27 24 80 22 22 69 60 27 30 39 25	68 47 70 50 9 19 50 47 39 48 48 44 45 8 64 31 42 36 43	35 81 75 88 63 65 70 96 95 90 95 53 87 50 93 99 99 90 95 92	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 28 28 52 81 52	655 na 300 222 133 166 566 666 666 199 200 688 355 555 299 333 200 200 208
Japan Malaysia New Zealand Philippines South Korea Singapore Taiwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Lutxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia North Macedonia North Macedonia Romania Russia Serbia Slovakia	Europe Europe	28 13 50 88 44 42 40 56 90 90 88 88 38 90 90 93 93 86 63 90 93 86 100	54           76           20           70           60           59           27           24           80           229           69           600           277           300           329           300           325           52	68 47 70 50 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	35 81 75 88 63 65 70 96 95 90 53 87 50 90 93 99 99 90 95 92 51	24 38 61 85 69 82 64 47 71 75 67 67 67 62 35 38 28 52 52 77	65 na 30 22 13 16 56 66 66 19 20 68 355 55 29 33 20 20 20 20 28 28
Japan Malaysia New Zealand Philippines South Korea Singapore Talwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Luxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia North Macedonia North Gacedonia North Gacedonia Romania Russia Serbia Slovakia Slovakia	Europe Europe	28 13 50 888 444 422 400 566 900 888 388 900 311 688 633 990 901 911 688 633 990 901 71	54           76           20           70           60           59           27           24           80           222           69           600           277           309           325           52           27	68 47 70 50 9 9 9 9 9 9 9 48 47 39 48 44 45 8 64 31 42 366 43 100 19	35 81 75 88 63 65 70 96 95 90 53 87 50 93 99 99 99 99 90 95 92 51 88	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 52 81 52 77 49	65 na 30 22 13 16 56 66 66 19 20 68 355 555 29 33 20 20 20 20 20 20 20 20 20 20
Japan Malaysia New Zealand Philippines South Korea Singapore Talwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Luxembourg Malta Moldova Montenegro Netherlands North Macedonia Norway Poland Portugal Romania Russia Serbia Slovakia Slovenia	Europe Europe	28 13 50 88 44 42 40 56 90 88 38 90 93 866 100 71 57	54           76           20           70           60           59           27           24           80           222           69           60           277           30           325           522           27           51	68 47 70 50 9 9 9 19 50 47 39 48 14 45 8 8 64 31 42 36 43 100 19 42	35 81 75 88 63 65 90 95 90 95 90 93 99 90 99 99 90 95 92 51 1 88 88	24 38 61 85 69 82 64 477 71 75 67 62 35 38 28 52 81 52 77 49 48	65 na 300 222 133 166 566 666 666 199 200 688 355 555 299 333 200 200 200 208 288 488 444
Japan Malaysia New Zealand Philippines South Korea Singapore Taiwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Luxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia North Macedonia North Macedonia North Macedonia Romania Romania Romania Slovalia Slovalia Slovalia Spain Sweden	Europe Europe	288 13 500 888 44 42 400 566 900 888 388 900 933 311 688 633 900 933 866 1000 711 577 31	$\begin{array}{r} 54\\ 76\\ 20\\ 70\\ 60\\ 60\\ 59\\ 27\\ 24\\ 80\\ 22\\ 29\\ 69\\ 60\\ 27\\ 30\\ 39\\ 25\\ 52\\ 52\\ 51\\ 71\\ \end{array}$	68 47 70 50 9 9 50 47 39 48 47 39 48 47 39 48 43 14 42 36 64 31 00 19 9 42 2 5	35 81 75 88 63 65 70 96 95 90 95 90 95 90 93 99 99 90 95 92 25 51 1 88 88 88 65 29	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 52 81 52 77 49 48 53	655 na 300 222 133 166 566 666 199 200 688 355 555 299 333 200 200 200 208 838 444 788
Japan Malaysia New Zealand Philippines South Korea Singapore Taiwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lidtuania Luxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia Norway Poland Portugal Romania Russia Slovalia Slovalia Slovenia Spain Sweden	Europe Europe	288 13 500 888 444 422 400 566 900 931 168 888 900 933 866 1000 711 577 311 344	54 76 20 70 60 59 27 24 80 22 27 24 80 60 22 27 30 39 25 52 27 7 11 68	68 47 70 50 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	35 81 75 88 63 65 70 96 95 90 99 90 99 99 99 99 99 99 99 99 99 99	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 28 28 28 28 28 28 38 28 38 28 38 28 38 28 38 28 38 38 28 38 38 38 38 38 38 38 38 38 3	655 na 300 222 133 166 566 666 199 200 688 355 555 299 333 200 200 208 835 555 299 333 200 200 208 444 788 666 666 667 667 667 667 667
Japan Malaysia New Zealand Philippines South Korea Singapore Taiwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Lutxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia North Macedonia North Macedonia Romania Romania Romania Sorbia Slovakia Slovakia Slovakia Slovenia Syain Sweden Switzerland United Kingdom	Europe Europe	28 13 50 88 44 44 42 40 56 90 88 83 890 311 68 63 900 71 157 311 34 35	54 76 20 70 60 60 59 27 24 80 60 22 22 69 60 27 7 30 39 25 52 27 7 51 71 71 71 71	68 47 70 9 9 19 50 47 39 48 48 44 45 8 8 48 43 14 42 36 64 31 00 19 9 42 2 5 0 00 00 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	35 81 75 88 63 63 65 70 96 95 90 90 53 87 50 93 99 90 90 90 95 92 51 88 88 86 62 99 90 95 53 87 50 87 50 87 50 88 87 50 88 87 50 88 88 88 88 88 88 88 88 88 88 88 88 88	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 52 81 81 52 77 49 48 53 51 51 51 51 51 51 52 52 52 52 55 55 55 55 55 55	655 na 300 222 133 166 566 666 699 333 200 200 200 200 200 200 200
Japan Malaysia New Zealand Philippines South Korea Singapore Taiwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Lutxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia North Macedonia North Macedonia North Macedonia North Macedonia Northas Poland Portugal Romania Russia Serbia Slovakia Slovakia Slovakia Slovakia Slovakia Slovakia Slovakia Sveten Switzerland United Kingdom	Europe Europe	28 13 50 88 88 44 42 40 56 63 90 93 86 63 90 93 86 100 71 57 31 34 56 66	54 76 200 700 600 599 277 300 224 800 222 699 600 277 300 399 255 552 277 511 711 68 899 37	68 47 70 9 9 19 50 47 39 48 44 45 8 8 44 31 42 36 64 33 100 100 19 422 5 70 0 66 64 5	35 81 75 88 63 65 70 96 53 87 50 99 99 99 99 99 99 99 99 99 99 90 95 51 88 88 88 88 88 85 85	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 52 81 52 81 52 77 49 48 53 54 51 46	655 na 300 222 133 166 566 666 699 299 333 200 200 288 488 444 788 666 699 499
Japan Malaysia New Zealand Philippines South Korea Singapore Taiwan Vietnam	Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific Westem Pacific	54 100 22 94 60 74 58 70	25 46 26 79 32 18 20 17 20	57 95 50 58 64 39 48 45 40	92 36 49 44 85 8 69 30	88 41 33 27 100 72 93 57	42 57 75 42 29 46 49 35	Israel Italy Kazakhstan Latvia Lithuania Lutxembourg Malta Moldova Montenegro Netherlands North Macedonia North Macedonia North Macedonia North Macedonia Romania Romania Romania Sorbia Slovakia Slovakia Slovakia Slovenia Syain Sweden Switzerland United Kingdom	Europe Europe	28 13 50 88 88 44 42 40 56 90 31 16 88 38 90 93 31 16 88 90 93 31 15 71 157 31 34 4 35 66 92	54 76 200 700 600 599 277 24 800 222 699 600 277 300 399 255 522 77 511 711 688 899 377 255	68 47 70 9 9 19 50 47 39 48 48 44 45 8 8 48 43 14 42 36 64 31 00 19 9 42 2 5 0 00 00 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	35 81 75 88 63 65 70 96 95 90 93 87 50 93 87 50 93 99 99 90 95 51 88 88 86 29 55 88 5 85 95	24 38 61 85 69 82 64 47 71 75 67 62 35 38 28 52 81 81 52 77 49 48 53 51 51 51 51 51 51 52 52 52 52 55 55 55 55 55 55	655 na 300 222 133 166 566 666 699 333 200 200 200 200 200 200 200

Figure A1. Hofstede mean values of each WHO region.

		0				D (1	D (1	
		Cases -	Cases -			Deaths -	Deaths -	
Data	a 1.	cumulative total	newly	<b>N</b> T	a 1.0	cumulative total	newly	3.7
Date	Cumulative	per 1 million	reported in	New_	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	cases	_deaths	population	last 7 days	deaths
			Global-PD					
20200222-Global-PDI	0.060	0.062	0.058	0.049	0.061	0.115	0.060	000000000000000000000000000000000000000
20200322-Global-PDI	-0.122	-0.409**	-0.259**	-0.229*	-0.071	-0.160	-0.128	-0.125
20200422-Global-PDI	-0.195*	-0.083	-0.149	-0.138	-0.217*	-0.197*	-0.215	-0.205*
20200522-Global-PDI	-0.143	-0.121	-0.036	-0.034	-0.194*	-0.258**	-0.111	-0.101
20200622-Global-PDI	-0.093	0.037	-0.012	-0.023	-0.160	-0.237*	0.017	-0.003
20200722-Global-PDI	-0.075	0.093	-0.056	-0.049	-0.125	-0.157	0.002	0.000
20200822-Global-PDI	-0.058	0.102	-0.006	-0.012	-0.101	-0.099	0.001	-0.005
20200922-Global-PDI	-0.046	0.066	-0.020	-0.019	-0.055	0.040	0.003	0.029
20201022-Global-PDI	-0.048	-0.008	-0.100	-0.106	-0.076	-0.055	-0.048	-0.043
20201122-Global-PDI	-0.075	-0.092	-0.137	-0.128	-0.081	-0.062	-0.125	-0.126
20201211-Global-PDI	-0.085	-0.126	-0.127	-0.137	-0.090	-0.093	-0.131	-0.135
20201231-Global-PDI	-0.097	-0.156	-0.158	-0.178	-0.097	-0.104	-0.149	-0.184*
20210111-Global-PDI	-0.106	-0.180	-0.170	-0.161	-0.104	-0.119	-0.169	-0.146
20210121-Global-PDI	-0.112	-0.196*	-0.157	-0.159	-0.110	-0.137	-0.171	-0.163
20210130-Global-PDI	-0.114	-0.198*	-0.135	-0.097	-0.113	-0.146	-0.150	-0.107
20210213-Global-PDI	-0.115	-0.200*	-0.125	-0.111	-0.116	-0.152	-0.128	-0.116
20210220-Global-PDI	-0.115	-0.198*	-0.106	-0.094	-0.117	-0.151	-0.115	-0.102
			EURO-PD	I				
20200222-EURO-PDI	-0.176	-0.339*	-0.073	-0.060	0.048	0.048	na	na
20200322-EURO-PDI	-0.171	-0.435***	-0.193	-0.164	-0.076	-0.125	-0.080	-0.081
20200422-EURO-PDI	-0.159	0.003	-0.021	0.009	-0.147	-0.106	-0.170	-0.161
20200522-EURO-PDI	-0.033	-0.345*	0.184	0.182	-0.144	-0.223	-0.083	-0.075
20200622-EURO-PDI	0.056	-0.116	0.227	0.254	-0.130	-0.223	0.157	0.173
20200722-EURO-PDI	0.101	0.064	0.222	0.215	-0.110	-0.163	0.296*	0.261
20200822-EURO-PDI	0.120	0.132	0.127	0.085	-0.089	-0.095	0.342*	0.308*
20200922-EURO-PDI	0.104	0.093	-0.017	0.006	-0.049	-0.008	0.205	0.196
20201022-EURO-PDI	0.072	0.048	0.006	0.003	-0.045	0.031	0.156	0.128
20201122-EURO-PDI	0.041	0.077	0.021	0.053	-0.019	0.129	0.048	
20201211-EURO-PDI	0.046	0.069	0.066	0.021	-0.008	0.151	0.045	0.032
20201231-EURO-PDI	0.032	0.033	-0.074	-0.117	-0.007	0.171	-0.004	-0.040
20210111-EURO-PDI	0.011	-0.015	-0.145	-0.124	-0.016	0.154	-0.107	-0.102
20210121-EURO-PDI	-0.002	-0.049	-0.108	-0.116	-0.028	0.126	-0.116	-0.127
20210130-EURO-PDI	-0.001	-0.052	-0.041	0.106	-0.035	0.112	-0.092	0.043
20210213-EURO-PDI	-0.005	-0.057	-0.016		-0.040	0.099	-0.051	-0.037
20210220-EURO-PDI	-0.004	-0.054		0.035	-0.039	0.104	-0.008	-0.005
			AFRO-PD	1				
20200222-AFRO-PDI	na	na	na	the second s	na	na	na	
20200322-AFRO-PDI	-0.482	-0.451	-0.423		0.232	0.211	0.244	
20200422-AFRO-PDI 20200522-AFRO-PDI	-0.305	-0.192 -0.085		-0.307	0.157	0.160 0.068	-0.026	0.321 - <b>0.506</b> *
	-0.402		-0.542*		-0.087			
20200622-AFRO-PDI 20200722-AFRO-PDI	-0.569"	-0.338	-0.614*		-0.576*	-0.430	-0.552*	
20200722-AFRO-PDI 20200822-AFRO-PDI	-0.624**	-0.546*	<u>-0.650<sup>**</sup></u> -0.631 <sup>**</sup>	-0.629	-0.619*	-0.558*	-0.677 <sup>**</sup> -0.666 <sup>**</sup>	
20200822-AFRO-PDI 20200922-AFRO-PDI	<u>-0.636</u> ** -0.638 <sup>**</sup>	-0.621*	-0.631 -0.585 <sup>*</sup>	-0.030	-0.643*** 0.042	-0.645 <sup>**</sup> -0.006	-0.666 -0.649 <sup>**</sup>	-0.679
20200922-AFRO-PDI 20201022-AFRO-PDI	-0.638 -0.636 <sup>**</sup>	-0.648**				-0.000	-0.649 -0.629 <sup>**</sup>	-0.023
20201022-AFRO-PDI 20201122-AFRO-PDI	-0.636	-0.651**	<u>-0.576</u> * -0.501*		<u>-0.645</u> **		-0.629 -0.628**	
20201122-AFRO-PDI	-0.631 -0.629 <sup>**</sup>	-0.647 <sup>***</sup> -0.651 <sup>***</sup>	-0.632**	-0.628**	-0.642 <sup>**</sup>	<u>-0.663<sup>**</sup></u> -0.664 <sup>**</sup>	-0.628	
20201231-AFRO-PDI					-0.641			
20201231-AFRO-PDI 20210111-AFRO-PDI	-0.635**	-0.663**	-0.658**	-0.655	-0.645**	-0.671**	-0.661**	-0.663
	-0.641**	-0.676**	-0.668**	-0.676	-0.649**	-0.682**	-0.672**	
20210121-AFRO-PDI	-0.644**	-0.688	-0.662**	-0.655	-0.653**	-0.690**	-0.664	-0.659
20210130-AFRO-PDI	-0.644**	-0.693**	-0.627**	-0.607 <sup>*</sup>	-0.655**	-0.697**	-0.672**	-0.671
20210213-AFRO-PDI	-0.643**	-0.695**	-0.520*	-0.476	-0.656**	-0.701**	-0.666**	-0.658**
20210220-AFRO-PDI	-0.643**	-0.691**	-0.400	-0.558*	-0.656**	-0.702**	-0.650**	-0.661**

cases         population         last 7 days         cases         deaths         population         last 7 days         deaths           20200222-AMRO-PDI         -0.455         -0.448         -0.459         -0.459         -0.469         -0.469         -0.469         -0.469         -0.469         -0.469         -0.341         -0.351         -0.353         -0.351         -0.353         -0.352         -0.314         -0.454         -0.331         -0.351         -0.353         -0.018         -0.169         -0.265         -0.069         -0.022         -0.011         -0.168         -0.265         -0.069         -0.022         -0.010         -0.018         -0.169         -0.265         -0.069         -0.022         -0.023         -0.026         -0.226         -0.203         -0.018         -0.172         -0.023         -0.021         -0.018         -0.122         -0.017         -0.018         -0.266         -0.226         -0.203         -0.031         -0.012         -0.021         -0.017         -0.023         -0.031         -0.012         -0.031         -0.021         -0.031         -0.023         -0.232         -0.228         -0.044         -0.284         -0.031         -0.023         -0.232         -0.032         -0.0324         -0.0315         -0.155<			Cases -	Cases -			Deaths -	Deaths -	
Date         Cumulative population         reported in las7 days         New_ cases         Cumulative deaths         population         reported in las7 days         1           20200222-AMRO-PDI         -0.458         -0.048         -0.449         -0.457         -0.027         me           20200322-AMRO-PDI         -0.338         -0.037         -0.347         -0.337         -0.0331         -0.0331         -0.0331         -0.0331         -0.0331         -0.0331         -0.0331         -0.027         me           20200522-AMRO-PDI         -0.342         -0.228         -0.344         -0.0331         -0.0331         -0.0331         -0.229         -0.018         -0.026         -0.069         -0.022           20200522-AMRO-PDI         -0.263         0.016         -0.234         -0.226         -0.221         0.017         -0.088           20201022-AMRO-PDI         -0.263         0.025         -0.234         -0.334         -0.139         -0.112         20.0022         -0.018         -0.018         -0.028         -0.228         0.044         -0.288         20.0211-AMRO-PDI         -0.275         -0.059         -0.324         -0.034         -0.284         -0.028         -0.228         -0.044         -0.282         -0.221         0.044         -0.282 </td <td>Data</td> <td></td> <td></td> <td>and a second second</td> <td></td> <td></td> <td>and a state of the state of the</td> <td></td> <td></td>	Data			and a second second			and a state of the		
cases         population         last 7 days         cases         deaths         population         last 7 days         d           20200222-AMRO-PD1         -0.342         -0.048         -0.489         -0.489         -0.499         -0.344         -0.0343         -0.353         -0.353           20200422-AMRO-PD1         -0.342         -0.283         -0.314         -0.018         -0.025         -0.016         -0.016         -0.016         -0.025         -0.016         -0.025         -0.016         -0.025         -0.016         -0.025         -0.025         -0.025         -0.025         -0.025         -0.025         -0.025         -0.025         -0.026         -0.026         -0.022         -0.026         -0.026         -0.025         -0.026         -0.025         -0.039         -0.329         -0.128         -0.026         -0.026         -0.025         -0.039         -0.031         -0.018         -0.226         -0.203         -0.035         -0.031         -0.019         -0.018         -0.026         -0.026         -0.028         -0.031         -0.019         -0.031         -0.019         -0.031         -0.031         -0.031         -0.031         -0.031         -0.026         -0.027         -0.031         -0.026         -0.028         -0.023<		Cumulative	per 1 million		New	Cumulative	per 1 million		New
0200222-AMRO-PD1         -0.452         -0.472         -0.321         -0.027         rm           0200422-AMRO-PD1         -0.342         -0.372         -0.374         -0.324         -0.355           0200422-AMRO-PD1         -0.330         -0.185         -0.314         -0.186         -0.022           0200522-AMRO-PD1         -0.291         -0.018         +0.169         -0.166         -0.026         -0.020           0200622-AMRO-PD1         -0.263         0.101         -0.263         -0.101         -0.203         0.036         -0.124           0200622-AMRO-PD1         -0.263         0.005         +0.291         -0.139         0.191         -0.193           0200622-AMRO-PD1         -0.263         0.005         +0.234         -0.339         -0.191         -0.193           0200122-AMRO-PD1         -0.275         -0.059         +0.344         -0.332         -0.221         0.0044         -0.284           020112-AMRO-PD1         -0.312         -0.174         +0.327         -0.332         -0.236         0.035         +0.282           020112-AMRO-PD1         -0.315         -0.158         +0.326         -0.242         0.039         -0.272           0201012-AMRO-PD1         -0.315         -0.158 </td <td></td> <td></td> <td>population</td> <td></td> <td>cases</td> <td>deaths</td> <td>population</td> <td>and the second second</td> <td>deaths</td>			population		cases	deaths	population	and the second second	deaths
20200822-AMRO-PDI         -0.342         -0.343         -0.434         -0.435           20200422-AMRO-PDI         -0.330         -0.195         -0.221         -0.314         -0.168         -0.235           20200522-AMRO-PDI         -0.230         -0.118         -0.169         -0.255         -0.069         -0.022           20200522-AMRO-PDI         -0.273         0.076         -0.282         -0.222         0.017         -0.082           20200222-AMRO-PDI         -0.263         0.025         -0.233         0.056         -0.124           20200222-AMRO-PDI         -0.263         0.025         -0.323         -0.210         0.034         -0.191           20201022-AMRO-PDI         -0.275         -0.055         -0.334         -0.199         0.055         -0.281           2020112-AMRO-PDI         -0.275         -0.056         -0.331         -0.322         -0.228         0.044         -0.285           2020112-AMRO-PDI         -0.312         -0.174         -0.322         -0.228         0.044         -0.285           2020123-AMRO-PDI         -0.315         -0.155         -0.326         -0.240         0.036         -0.261           2020123-AMRO-PDI         -0.315         -0.155         -0.256 <t< td=""><td></td><td></td><td></td><td></td><td>I</td><td></td><td></td><td></td><td></td></t<>					I				
20200822-AMRO-PDI         -0.342         -0.343         -0.434         -0.435           20200422-AMRO-PDI         -0.330         -0.195         -0.221         -0.314         -0.168         -0.235           20200522-AMRO-PDI         -0.230         -0.118         -0.169         -0.255         -0.069         -0.022           20200522-AMRO-PDI         -0.273         0.076         -0.282         -0.222         0.017         -0.082           20200222-AMRO-PDI         -0.263         0.025         -0.233         0.056         -0.124           20200222-AMRO-PDI         -0.263         0.025         -0.323         -0.210         0.034         -0.191           20201022-AMRO-PDI         -0.275         -0.055         -0.334         -0.199         0.055         -0.281           2020112-AMRO-PDI         -0.275         -0.056         -0.331         -0.322         -0.228         0.044         -0.285           2020112-AMRO-PDI         -0.312         -0.174         -0.322         -0.228         0.044         -0.285           2020123-AMRO-PDI         -0.315         -0.155         -0.326         -0.240         0.036         -0.261           2020123-AMRO-PDI         -0.315         -0.155         -0.256 <t< th=""><th>20200222-AMRO-PDI</th><th>-0.455*</th><th>-0.408</th><th>-0.489*</th><th>-0.489*</th><th>-0.027</th><th>-0.027</th><th>na</th><th>na</th></t<>	20200222-AMRO-PDI	-0.455*	-0.408	-0.489*	-0.489*	-0.027	-0.027	na	na
20200522-AMRO-PDI         -0.231         -0.134         -0.168         -0.229           20200622-AMRO-PDI         -0.291         -0.018         -0.166         -0.265         -0.069         -0.022           20200722-AMRO-PDI         -0.273         0.076         -0.264         -0.222         -0.017         -0.085           2020022-AMRO-PDI         -0.263         0.010         -0.230         -0.226         -0.203         0.056         -0.121           2020022-AMRO-PDI         -0.275         -0.059         -0.348         -0.339         -0.193         0.193         -0.193           2020121-AMRO-PDI         -0.275         -0.059         -0.348         -0.331         -0.332         -0.228         0.044         -0.282           2020121-AMRO-PDI         -0.312         -0.174         -0.322         -0.228         0.044         -0.285           20210121-AMRO-PDI         -0.315         -0.159         -0.329         -0.320         -0.242         0.036         -0.259           20210121-AMRO-PDI         -0.315         -0.158         -0.286         -0.242         0.036         -0.252           20210121-AMRO-PDI         -0.315         -0.158         -0.266         -0.242         0.040         -0.252      <	20200322-AMRO-PDI		-0.372			-0.344	-0.433*	-0.355	-0.336
20200622-AMRO-PDI         -0.273         -0.018         -0.196         -0.225         -0.069         -0.022           20200722-AMRO-PDI         -0.263         0.011         -0.230         -0.226         -0.203         0.056         -0.124           20200822-AMRO-PDI         -0.263         0.025         -0.231         -0.332         -0.193         -0.193           20201022-MARO-PDI         -0.275         -0.059         -0.332         -0.210         0.034         -0.294           20201122-AMRO-PDI         -0.312         -0.137         -0.335         -0.236         0.032         -0.228           2020121-AMRO-PDI         -0.315         -0.159         -0.327         -0.335         -0.236         0.035         -0.228           2020121-AMRO-PDI         -0.315         -0.159         -0.327         -0.300         -0.242         0.036         -0.259           2021013-AMRO-PDI         -0.315         -0.156         -0.299         -0.266         -0.242         0.041         +0.227           2021022-MARO-PDI         -0.315         -0.156         -0.299         -0.266         -0.242         0.041         +0.224           2020022-WRO-PDI         -0.188         -0.018         -0.220         -0.264         -0.02	20200422-AMRO-PDI	-0.342	-0.283	-0.346	-0.345	-0.337	-0.310	-0.353	-0.332
0200722-AMRO-PDI         -0.273         0.076         -0.264         -0.222         0.017         -0.088           02000822-AMRO-PDI         -0.263         0.101         -0.230         -0.226         -0.203         0.056         -0.124           0200122-AMRO-PDI         +0.263         0.005         +0.293         -0.339         0.119         -0.138           020112-AMRO-PDI         +0.275         +0.059         +0.348         -0.332         -0.210         0.034         +0.294           020121-AMRO-PDI         +0.307         +0.184         +0.332         -0.228         0.044         +0.288           0201011-AMRO-PDI         +0.315         +0.158         +0.329         +0.242         0.036         +0.269           021012-AMRO-PDI         +0.315         +0.155         +0.318         +0.276         +0.242         0.039         +0.257           021021-AMRO-PDI         +0.315         +0.158         +0.276         +0.242         0.039         +0.234           021022-AMRO-PDI         +0.315         +0.158         +0.276         +0.260         +0.242         0.041         +0.224           021022-AMRO-PDI         +0.315         +0.158         +0.276         +0.260         +0.242         0.040	20200522-AMRO-PDI	-0.330	-0.195	-0.291	-0.232	-0.314	-0.168	-0.229	-0.210
D200822-AMRO-PDI         -0.263         0.101         -0.230         -0.233         0.035         -0.124           D201022-AMRO-PDI         -0.263         0.025         -0.293         -0.339         -0.193         0.191         -0.193           D201022-AMRO-PDI         -0.275         -0.059         -0.348         -0.343         -0.199         0.055         -0.281           D201212-AMRO-PDI         -0.307         -0.184         -0.322         -0.228         0.044         -0.284           D20121-AMRO-PDI         -0.315         -0.155         -0.332         -0.240         0.036         -0.282           D20101-AMRO-PDI         -0.316         -0.155         -0.318         -0.260         -0.242         0.039         -0.247           D201022-AMRO-PDI         -0.315         -0.156         -0.299         -0.266         -0.242         0.041         -0.227           D201022-AMRO-PDI         -0.314         -0.158         -0.276         -0.260         -0.242         0.041         -0.224           D200022-WPRO-PDI         0.195         0.217         0.191         0.169         0.196         0.199         0.195           D200022-WPRO-PDI         0.195         0.217         0.318         0.377 <td< td=""><td></td><td>-0.291</td><td>-0.018</td><td>-0.169</td><td>-0.196</td><td></td><td>-0.069</td><td>-0.022</td><td>-0.046</td></td<>		-0.291	-0.018	-0.169	-0.196		-0.069	-0.022	-0.046
D2020922-AMRO-PDI         -0.263         0.025         -0.293         -0.193         0.191         -0.193           20201122-AMRO-PDI         -0.275         -0.059         -0.348         -0.343         -0.199         0.055         -0.281           20201122-AMRO-PDI         -0.207         -0.059         -0.332         -0.0210         0.034         -0.294           2020123-AMRO-PDI         -0.312         -0.174         -0.327         -0.335         -0.236         0.035         -0.285           2020121-AMRO-PDI         -0.316         -0.155         -0.331         -0.240         0.036         -0.289         -           2021013-AMRO-PDI         -0.316         -0.155         -0.318         -0.266         -0.242         0.041         -0.227           2021023-AMRO-PDI         -0.314         -0.158         -0.260         -0.242         0.041         -0.221           2020022-WPRO-PDI         0.195         0.127         0.19         0.169         0.195           2020022-WPRO-PDI         0.198         -0.018         -0.381         0.060         0.195         0.142         0.240           2020022-WPRO-PDI         0.198         0.217         0.191         0.169         0.195         0.223         0.			1. 4 M 1						-0.091
20201022-AMRO-PDI         -0.275         -0.059         -0.348         -0.343         -0.199         0.055         -0.281           20201122-AMRO-PDI         -0.299         -0.152         -0.337         -0.332         -0.210         0.0344         -0.228           2020121-AMRO-PDI         -0.312         -0.174         -0.326         -0.228         0.044         -0.228           2021012-AMRO-PDI         -0.315         -0.159         -0.320         -0.240         0.036         -0.289           2021012-AMRO-PDI         -0.315         -0.153         -0.308         -0.242         0.039         -0.247           2021012-AMRO-PDI         -0.315         -0.153         -0.308         -0.242         0.041         -0.227           2021022-MARO-PDI         -0.315         -0.158         -0.226         -0.242         0.041         -0.227           2021022-MARO-PDI         -0.314         -0.158         -0.260         -0.242         0.041         -0.224           2020022-WPRO-PDI         0.195         0.217         0.191         0.169         0.195         0.142         0.240           2020022-WPRO-PDI         0.125         0.208         0.303         0.223         0.012         0.223         0.022			100 C 10	WEATHER STREET			and the second	CONTRACTOR OF STREET	-0.124
20201122-AMRO-PDI         -0.299         -0.152         -0.337         -0.332         -0.210         0.034         -0.294           20201211-AMRO-PDI         -0.307         -0.184         -0.322         -0.228         0.044         -0.285           20201231-AMRO-PDI         -0.315         -0.159         -0.327         -0.336         0.035         -0.240           2021011-AMRO-PDI         -0.316         -0.155         -0.318         -0.296         -0.242         0.039         -0.227           2021021-AMRO-PDI         -0.315         -0.156         -0.299         -0.242         0.040         -0.231           2021022-AMRO-PDI         -0.314         -0.158         -0.276         -0.242         0.040         -0.231           2020022-WPRO-PDI         0.195         0.217         0.191         0.196         0.199         0.192           2020022-WPRO-PDI         0.188         -0.018         -0.231         0.040         -0.234           2020022-WPRO-PDI         0.188         -0.018         -0.381         0.060         0.195         0.142         0.240           2020022-WPRO-PDI         0.188         -0.018         0.323         0.060         0.253           2020022-WPRO-PDI         0.336						01470			-0.131
20201211-AMRO-PDI         -0.307         -0.184         -0.322         -0.228         0.044         -0.288           20201231-AMRO-PDI         -0.312         -0.174         -0.327         -0.335         -0.236         0.035         -0.282           20210121-AMRO-PDI         -0.315         -0.159         -0.335         -0.240         0.036         -0.259           20210121-AMRO-PDI         -0.315         -0.155         -0.318         -0.242         0.039         -0.247           2021021-AMRO-PDI         -0.315         -0.156         -0.299         -0.242         0.041         -0.237           2021022-AMRO-PDI         -0.314         -0.158         -0.276         -0.242         0.041         -0.234           2020022-WPRO-PDI         0.195         0.217         0.190         0.196         0.199         0.195           2020022-WPRO-PDI         0.188         -0.018         0.318         0.233         0.012         0.082           2020022-WPRO-PDI         0.202         0.018         0.122         0.120         0.223         0.012         0.082           20200622-WPRO-PDI         0.245         0.366         0.333         0.261         0.331         2020         0.250         0.341         0.25		1							-0.222
20201231-AMRO-PDI         -0.312         -0.174         -0.327         -0.335         -0.236         0.035         -0.282         -           2021011-AMRO-PDI         -0.315         -0.159         -0.329         -0.240         0.036         -0.259           2021013-AMRO-PDI         -0.316         -0.155         -0.308         -0.260         -0.242         0.039         -0.271           2021023-AMRO-PDI         -0.315         -0.156         -0.296         -0.242         0.041         -0.227           20210220-AMRO-PDI         -0.314         -0.158         -0.276         -0.260         -0.242         0.041         -0.221           20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.199         0.195           20200422-WPRO-PDI         0.188         -0.018         -0.223         0.012         0.022           20200422-WPRO-PDI         0.255         0.068         0.288         0.303         0.237         0.004         0.091           20200622-WPRO-PDI         0.336         0.144         0.112         0.257         0.085         0.341           20200722-WPRO-PDI         0.414         0.112         0.258         0.366         0.341         0.332         0.600 </th <th></th> <th></th> <th></th> <th></th> <th></th> <th>and the second second</th> <th></th> <th></th> <th>-0.291</th>						and the second			-0.291
20210111-AMRO-PDI         -0.315         -0.159         -0.329         -0.240         0.036         -0.259           20210121-AMRO-PDI         -0.315         -0.153         -0.308         -0.296         -0.242         0.039         -0.247           20210123-AMRO-PDI         -0.315         -0.156         -0.299         -0.286         -0.242         0.041         -0.227           2021022-AMRO-PDI         -0.314         -0.158         -0.276         -0.260         -0.242         0.040         -0.234           20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.195         0.142         0.240           20200222-WPRO-PDI         0.225         0.018         0.021         0.223         0.012         0.082           2020022-WPRO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091           2020022-WPRO-PDI         0.316         0.141         0.112         0.295         0.306         0.302         0.188         0.317           2020022-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.337           2020022-WPRO-PDI         0.414         0.112         0.295		20002000000			1000		100000	2021012-010-085	-0.293
20210121-AMRO-PDI         -0.316         -0.155         -0.318         -0.296         -0.242         0.039         -0.259           20210130-AMRO-PDI         -0.315         -0.156         -0.299         -0.242         0.039         -0.247           20210213-AMRO-PDI         -0.314         -0.156         -0.299         -0.266         -0.242         0.040         -0.234           20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.199         0.192           20200422-WPRO-PDI         0.195         0.217         0.191         0.169         0.192         0.024           20200422-WPRO-PDI         0.202         0.018         0.122         0.120         0.223         0.012         0.682           20200522-WPRO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091           20200622-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           20200822-WPRO-PDI         0.414         0.112         0.295         0.306         0.332         0.660         0.253           2020122-WPRO-PDI         0.412         0.128         0.371         0.371         0.385					_				-0.325
20210130-AMRO-PDI         -0.315         -0.153         -0.308         -0.200         -0.242         0.039         -0.247           20210213-AMRO-PDI         -0.315         -0.156         -0.299         -0.286         -0.242         0.040         -0.234           20210220-AMRO-PDI         -0.314         -0.158         -0.276         -0.260         -0.242         0.040         -0.234           20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.196         0.199         0.195           20200322-WPRO-PDI         0.205         0.088         -0.281         0.060         0.195         0.142         0.240           20200522-WPRO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091           20200522-WPRO-PDI         0.414         0.112         0.295         0.388         0.302         0.188         0.377           20200522-WPRO-PDI         0.414         0.112         0.295         0.386         0.302         0.188         0.377           20200522-WPRO-PDI         0.414         0.115         0.377         0.387         0.370         0.068         0.339           20201022-WPRO-PDI         0.412         0.128									
20210213-AMRO-PDI         -0.315         -0.156         -0.299         -0.286         -0.242         0.041         -0.227         -           20210220-AMRO-PDI         -0.314         -0.158         -0.276         -0.260         -0.242         0.040         -0.234         -           20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.196         0.199         0.195           20200322-WPRO-PDI         0.202         0.018         0.122         0.120         0.223         0.012         0.082           20200522-WPRO-PDI         0.235         0.088         0.288         0.303         0.237         0.004         0.091           20200522-WPRO-PDI         0.336         0.104         0.419         0.414         0.257         0.085         0.341           2020022-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           20200822-WPRO-PDI         0.404         0.155         0.387         0.370         0.068         0.339           20201022-WPRO-PDI         0.419         0.195         0.514         0.514         0.391         0.137         0.438           202010122-WPRO-PDI         0.437         0.2									-0.169
20210220-AMRO-PDI         -0.314         -0.158         -0.276         -0.260         -0.242         0.040         -0.234         -           WPRO-PDI           20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.196         0.199         0.195           20200322-WPRO-PDI         0.188         -0.018         -0.381         0.060         0.195         0.142         0.240           20200422-WPRO-PDI         0.202         0.018         0.120         0.223         0.012         0.062           20200522-WPRO-PDI         0.336         0.104         0.419         0.414         0.257         0.085         0.341           20200622-WPRO-PDI         0.414         0.112         0.250         0.366         0.302         0.188         0.377           20200822-WPRO-PDI         0.414         0.112         0.250         0.366         0.321         0.060         0.253           20201022-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           2020122-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           2020121-WPRO-PDI									-0.243
WPRO-PDI           20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.196         0.199         0.195           20200322-WPRO-PDI         0.202         0.018         -0.381         0.060         0.195         0.142         0.240           20200522-WPRO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091           20200522-WPRO-PDI         0.336         0.104         0.419         0.414         0.257         0.085         0.341           20200522-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           20200522-WPRO-PDI         0.414         0.112         0.128         0.336         0.341         0.332         0.060         0.253           20200922-WPRO-PDI         0.419         0.195         0.514         0.514         0.391         0.137         0.438           20201122-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           2020121-WPRO-PDI         0.438         0.287         0.289         0.271         0.395         0.200         0.136           20201011-WPRO-PDI <td></td> <td></td> <td></td> <td></td> <td>Contraction of the</td> <td></td> <td></td> <td></td> <td>-0.231</td>					Contraction of the				-0.231
20200222-WPRO-PDI         0.195         0.217         0.191         0.169         0.196         0.199         0.195           20200322-WPRO-PDI         0.188         -0.018         -0.381         0.060         0.195         0.142         0.240           20200522-WPRO-PDI         0.202         0.018         0.122         0.120         0.223         0.012         0.082           20200522-WPRO-PDI         0.235         0.088         0.238         0.303         0.237         0.004         0.091           20200622-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           20200822-WPRO-PDI         0.414         0.112         0.326         0.341         0.332         0.0660         0.253           20201022-WPRO-PDI         0.419         0.195         0.514         0.514         0.391         0.137         0.438           20201122-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           2020121-WPRO-PDI         0.438         0.387         0.395         0.200         0.136         -           20210121-WPRO-PDI         0.438         0.324         0.120         0.356 <td>20210220-AMRO-PDI</td> <td>-0.314</td> <td>-0.158</td> <td></td> <td></td> <td>-0.242</td> <td>0.040</td> <td>-0.234</td> <td>-0.213</td>	20210220-AMRO-PDI	-0.314	-0.158			-0.242	0.040	-0.234	-0.213
20200322-WPRO-PDI         0.188         -0.018         -0.381         0.060         0.195         0.142         0.240           20200422-WPRO-PDI         0.202         0.018         0.122         0.120         0.223         0.012         0.082           202006522-WPRO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091           202006522-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           20200622-WPRO-PDI         0.414         0.115         0.377         0.387         0.370         0.068         0.339           20201022-WPRO-PDI         0.419         0.195         0.514         0.391         0.137         0.438           2020122-WPRO-PDI         0.437         0.248         0.294         0.374         0.395         0.200         0.136           2020122-WPRO-PDI         0.437         0.248         0.289         0.271         0.395         0.200         0.136           2020121-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         +0.043           20210130-WPRO-PDI         0.448         0.387         0.196         0.260		0.105	0.217			0106	0.100	0.105	0.195
20200422-WPRO-PDI         0.202         0.018         0.122         0.120         0.223         0.012         0.082         -           20200522-WPRO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091           20200622-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           2020022-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           2020022-WPRO-PDI         0.412         0.128         0.336         0.341         0.332         0.060         0.253           2020022-WPRO-PDI         0.419         0.195         0.514         0.517         0.387         0.370         0.068         0.339           2020112-WPRO-PDI         0.437         0.248         0.294         0.255         0.404         0.204         0.374           2020121-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           2021011-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           20210130-WPRO-PDI         0.412	and the second	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O		and a second		Service and an other services	10 X 10 X 10		0.193
20200522-WPRO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-WPRO-PDI         0.336         0.104         0.419         0.414         0.257         0.085         0.341           20200722-WPRO-PDI         0.414         0.112         0.295         0.366         0.302         0.188         0.377           20200822-WPRO-PDI         0.404         0.155         0.377         0.387         0.370         0.068         0.339           20201022-WPRO-PDI         0.404         0.155         0.371         0.387         0.370         0.068         0.339           2020122-WPRO-PDI         0.419         0.195         0.514         0.514         0.391         0.137         0.438           2020121-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           2020121-WPRO-PDI         0.438         0.287         0.289         0.271         0.395         0.200         0.136           2021011-WPRO-PDI         0.432         0.324         0.140         0.379         0.198         -0.043           20210121-WPRO-PDI         0.448         0.357         0.570									-0.145
20200622-WPRO-PDI         0.336         0.104         0.414         0.257         0.085         0.341           20200722-WPRO-PDI         0.414         0.112         0.295         0.306         0.302         0.188         0.377           20200822-WPRO-PDI         0.412         0.128         0.336         0.341         0.332         0.060         0.253           20200922-WPRO-PDI         0.419         0.155         0.377         0.387         0.370         0.068         0.339           20201022-WPRO-PDI         0.419         0.195         0.514         0.514         0.391         0.137         0.438           2020121-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           20201231-WPRO-PDI         0.438         0.287         0.289         0.271         0.395         0.200         0.136           20201231-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           20210111-WPRO-PDI         0.448         0.387         0.196         0.260         0.356         0.211         0.105           20210121-WPRO-PDI         0.440         0.446         0.538         0.564 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-0.102</td>									-0.102
20200822-WPRO-PDI         0.412         0.128         0.336         0.341         0.332         0.060         0.253           20200922-WPRO-PDI         0.404         0.155         0.377         0.387         0.370         0.068         0.339           20201022-WPRO-PDI         0.419         0.195         0.514         0.514         0.391         0.137         0.438           20201122-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           2020121-WPRO-PDI         0.433         0.287         0.289         0.271         0.395         0.200         0.136           20201231-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           2021011-WPRO-PDI         0.418         0.353         0.080         0.124         0.366         0.201         -0.030           2021012-WPRO-PDI         0.408         0.387         0.196         0.260         0.356         0.211         0.105           2021012-WPRO-PDI         0.408         0.387         0.570         0.330         0.242         0.136           2021021-WPRO-PDI         0.412         0.419         0.354         0.444				2025 J 102 Percent					0.393
20200922-WPRO-PDI         0.404         0.155         0.377         0.387         0.370         0.068         0.339           20201022-WPRO-PDI         0.419         0.195         0.514         0.514         0.391         0.137         0.438           20201122-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           20201211-WPRO-PDI         0.438         0.287         0.289         0.271         0.395         0.200         0.136           20201231-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           2021011-WPRO-PDI         0.448         0.353         0.080         0.124         0.366         0.201         -0.030           2021012-WPRO-PDI         0.448         0.387         0.196         0.260         0.356         0.211         0.105           2021013-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021021-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.152           2021022-WPRO-PDI         0.428         0.300         -0.577 <td>20200722-WPRO-PDI</td> <td>0.414</td> <td>0.112</td> <td>0.295</td> <td>0.306</td> <td>0.302</td> <td>0.188</td> <td>0.377</td> <td>-0.113</td>	20200722-WPRO-PDI	0.414	0.112	0.295	0.306	0.302	0.188	0.377	-0.113
20201022-WPRO-PDI         0.419         0.195         0.514         0.391         0.137         0.438           20201122-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           20201211-WPRO-PDI         0.438         0.287         0.289         0.271         0.395         0.200         0.136           20201231-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           2021011-WPRO-PDI         0.418         0.353         0.080         0.124         0.366         0.201         -0.030           2021012-WPRO-PDI         0.408         0.387         0.196         0.260         0.356         0.211         0.105           2021021-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021021-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021022-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na <td>20200822-WPRO-PDI</td> <td>0.412</td> <td>0.128</td> <td>0.336</td> <td>0.341</td> <td>0.332</td> <td>0.060</td> <td>0.253</td> <td>0.282</td>	20200822-WPRO-PDI	0.412	0.128	0.336	0.341	0.332	0.060	0.253	0.282
20201122-WPRO-PDI         0.437         0.248         0.294         0.250         0.404         0.204         0.374           20201211-WPRO-PDI         0.438         0.287         0.289         0.271         0.395         0.200         0.136         -           20201231-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198        0.043           2021011-WPRO-PDI         0.418         0.353         0.080         0.124         0.366         0.201         -0.030         -           20210121-WPRO-PDI         0.418         0.353         0.080         0.124         0.366         0.201         -0.030         -           20210121-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021021-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021022-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           2020022-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           2020022-SEARO-PDI         -0.0	20200922-WPRO-PDI	0.404	0.155	0.377	0.387	0.370	0.068	0.339	0.205
20201211-WPRO-PDI         0.438         0.287         0.289         0.271         0.395         0.200         0.136         -           20201231-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           20210111-WPRO-PDI         0.418         0.353         0.080         0.124         0.366         0.201         -0.030         -           20210121-WPRO-PDI         0.408         0.387         0.196         0.260         0.356         0.211         0.105           20210130-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021022-WPRO-PDI         0.433         0.463         0.527         0.570         0.330         0.242         0.152           2021022-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           V         V         V         V         V         V         V         V           2020022-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           20200322-SEARO-PDI         -0.029         -0.337         0.047									0.426
20201231-WPRO-PDI         0.432         0.324         0.150         0.140         0.379         0.198         -0.043           20210111-WPRO-PDI         0.418         0.353         0.080         0.124         0.366         0.201         -0.030         -           2021012-WPRO-PDI         0.408         0.387         0.196         0.260         0.356         0.211         0.105           20210130-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021021-WPRO-PDI         0.433         0.463         0.527         0.570         0.330         0.242         0.152           20210220-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091<-           20200622-SE									0.382
20210111-WPRO-PDI         0.418         0.353         0.080         0.124         0.366         0.201         -0.030         -           20210121-WPRO-PDI         0.408         0.387         0.196         0.260         0.356         0.211         0.105           20210130-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           2021021-WPRO-PDI         0.433         0.463         0.527         0.570         0.330         0.242         0.152           20210220-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -		0.438		0.289	0.271			0.136	-0.020
20210121-WPRO-PDI         0.408         0.387         0.196         0.260         0.356         0.211         0.105           20210130-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           20210213-WPRO-PDI         0.433         0.463         0.527         0.570         0.330         0.242         0.152           20210220-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091<-           20200622-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200622-SEARO-PDI		0.432	0.324	0.150	Sector 1	0.379	0.198	-0.043	0.113
20210130-WPRO-PDI         0.412         0.419         0.354         0.444         0.345         0.221         0.136           20210213-WPRO-PDI         0.433         0.463         0.527         0.570         0.330         0.242         0.152           20210220-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na         na           20200322-SEARO-PDI         -0.638         -0.661         -0.557         na	20210111-WPRO-PDI	0.418	0.353	0.080	0.124	0.366	0.201	-0.030	-0.071
20210213-WPRO-PDI         0.433         0.463         0.527         0.570         0.330         0.242         0.152           20210220-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200622-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200722-SEARO-PDI         0.017         -0.052         0.008         0.020         0.034         0.013           20200922-SEARO-PDI	20210121-WPRO-PDI	0.408	0.387	0.196	0.260	0.356	0.211	0.105	0.102
20210220-WPRO-PDI         0.440         0.476         0.538         0.564         0.324         0.248         0.146           SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na         na           20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-SEARO-PDI         0.026         -0.030         0.017         0.018         0.028         0.021         0.004         0.091         -           20200622-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200722-SEARO-PDI         0.017         -0.052         0.008         0.020         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137	20210130-WPRO-PDI	0.412	0.419	0.354	0.444	0.345	0.221	0.136	0.076
SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-SEARO-PDI         0.035         -0.011         0.028         0.023         0.028         0.071         0.019           20200622-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200822-SEARO-PDI         0.017         -0.052         0.008         0.020         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI <td>20210213-WPRO-PDI</td> <td>0.433</td> <td>0.463</td> <td>0.527</td> <td>0.570</td> <td>0.330</td> <td>0.242</td> <td>0.152</td> <td>0.049</td>	20210213-WPRO-PDI	0.433	0.463	0.527	0.570	0.330	0.242	0.152	0.049
SEARO-PDI           20200222-SEARO-PDI         -0.638         -0.661         -0.557         na         na         na         na           20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-SEARO-PDI         0.035         -0.011         0.028         0.023         0.028         0.071         0.019           20200622-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200822-SEARO-PDI         0.017         -0.052         0.008         0.020         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI <td>20210220-WPRO-PDI</td> <td>0.440</td> <td>0.476</td> <td>0.538</td> <td>0.564</td> <td>0.324</td> <td>0.248</td> <td>0.146</td> <td>0.353</td>	20210220-WPRO-PDI	0.440	0.476	0.538	0.564	0.324	0.248	0.146	0.353
20200322-SEARO-PDI         -0.428         -0.300         -0.435         -0.542         0.046         0.012         0.051           20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-SEARO-PDI         0.035         -0.011         0.028         0.023         0.028         0.071         0.019           20200722-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200822-SEARO-PDI         0.017         -0.052         0.008         0.020         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201122-SEARO-PDI         0.003									
20200422-SEARO-PDI         -0.029         -0.337         0.047         0.051         0.032         -0.072         0.056           20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-SEARO-PDI         0.035         -0.011         0.028         0.023         0.028         0.071         0.019           20200722-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200822-SEARO-PDI         0.017         -0.052         0.008         0.002         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201022-SEARO-PDI         0.003         -0.359         0.001         -0.001         0.011         -0.252         0.010			-0.661						na
20200522-SEARO-PDI         0.255         0.088         0.288         0.303         0.237         0.004         0.091         -           20200622-SEARO-PDI         0.035         -0.011         0.028         0.023         0.028         0.071         0.019         -           20200722-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200822-SEARO-PDI         0.017         -0.052         0.008         0.002         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201022-SEARO-PDI         0.003         -0.359         0.001         -0.011         -0.252         0.010									
20200622-SEARO-PDI         0.035         -0.011         0.028         0.023         0.028         0.071         0.019           20200722-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200822-SEARO-PDI         0.017         -0.052         0.008         0.002         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201122-SEARO-PDI         0.003         -0.359         0.001         -0.001         0.011         -0.252         0.010		No. of Concession, Name of							
20200722-SEARO-PDI         0.026         -0.030         0.017         0.018         0.026         0.080         0.021           20200822-SEARO-PDI         0.017         -0.052         0.008         0.002         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201122-SEARO-PDI         0.003         -0.359         0.001         -0.001         0.011         -0.252         0.010									
20200822-SEARO-PDI         0.017         -0.052         0.008         0.008         0.020         0.034         0.013           20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201122-SEARO-PDI         0.003         -0.359         0.001         -0.001         0.011         -0.252         0.010							dialogitate Th		
20200922-SEARO-PDI         0.011         -0.138         0.003         0.002         0.068         0.137         0.012           20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201122-SEARO-PDI         0.003         -0.359         0.001         -0.011         -0.252         0.010									
20201022-SEARO-PDI         0.006         -0.296         -0.022         -0.019         0.014         -0.143         0.005         -           20201122-SEARO-PDI         0.003         -0.359         0.001         -0.011         -0.252         0.010									
20201122-SEARO-PDI 0.003 -0.359 0.001 -0.001 0.011 -0.252 0.010 -									
20201211-SEARO-PDI 0.003 -0.372 0.009 0.007 0.013 -0.185 0.016	20201211-SEARO-PDI	0.003	-0.372	0.009	0.007	0.013	-0.185	0.016	
		0.004		0.021	0.031	0.015		0.045	0.052
		0.005		0.035	0.038	0.016		0.050	0.044
20210130-SEARO-PDI 0.005 -0.343 0.023 0.021 0.017 -0.164 0.050	20210130-SEARO-PDI	0.005	-0.343	0.023	0.021	0.017	-0.164	0.050	0.044
20210213-SEARO-PDI 0.005 -0.341 0.042 0.044 0.018 -0.152 0.056	20210213-SEARO-PDI	0.005	-0.341	0.042	0.044	0.018	-0.152	0.056	0.053
20210220-SEARO-PDI 0.006 -0.337 0.040 0.041 0.018 -0.145 0.061	20210220-SEARO-PDI	0.006	-0.337	0.040	0.041	0.018	-0.145	0.061	0.051

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	cases	_deaths	population	last 7 days	deaths
			EMRO-PD	I				
20200222-EMRO-PDI	-0.305	0.133	-0.373	-0.378	-0.146	0.312	na	-0.432
20200322-EMRO-PDI	-0.432	-0.136	-0.465	-0.449	-0.431	-0.429	-0.438	-0.430
20200422-EMRO-PDI	-0.404	0.303	-0.180	-0.080	-0.455	-0.407	-0.523	-0.522
20200522-EMRO-PDI	-0.258	0.447	-0.004	-0.124	-0.498	-0.258	-0.600*	-0.614*
20200622-EMRO-PDI	-0.259	0.452	-0.197	-0.215	-0.543*	-0.010	-0.454	-0.368
20200722-EMRO-PDI	-0.194	0.491	0.039	0.070	-0.483	0.093	-0.330	-0.355
20200822-EMRO-PDI	-0.135	0.526	0.184	0.175	-0.436	0.098	-0.202	-0.200
20200922-EMRO-PDI	-0.083	0.565*	-0.004	-0.014	-0.434	0.190	-0.277	-0.277
20201022-EMRO-PDI	-0.112	0.580*	-0.271	-0.309	-0.403	0.033	-0.443	-0.472
20201122-EMRO-PDI	-0.263	0.531	-0.575*	-0.596*	-0.439	-0.193	-0.564*	-0.531
20201211-EMRO-PDI	-0.349	AND DESIGN	-0.620*		-0.459	-0.273	-0.605*	-0.621*
20201231-EMRO-PDI	-0.388		-0.705**	-0.667**	-0.478	-0.311	-0.823**	-0.814**
20210111-EMRO-PDI	-0.410	0.417	-0.597*	-0.608*	-0.489	-0.329	-0.822**	-0.807**
20210121-EMRO-PDI	-0.425	0.397	-0.513	-0.489	-0.499	-0.344	-0.805**	-0.793**
20210130-EMRO-PDI	-0.431	0.386	-0.431	-0.404	-0.508	-0.352	-0.762**	-0.710**
20210213-EMRO-PDI	-0.432	0.378	-0.339	-0.312	-0.519	-0.346	-0.744**	-0.695**
20210220-EMRO-PDI	-0.429	0.375	-0.291	-0.225	-0.523	-0.341	-0.758**	-0.738**

**Figure A2.** Before vaccination date comparing PDI. \* p < 0.05; \*\* p < 0.01.

<b>N</b>								
		Cases -	Cases -			Deaths -	Deaths -	
Data	and an and a second second	cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			Global-ID	V				
20200222-Global-IDV	-0.076	-0.107	-0.078	-0.088	-0.076	-0.100	-0.076	-0.076
20200322-Global-IDV	0.207*	0.404**	0.424**	0.386**	0.163	0.279**	0.259**	0.255***
20200422-Global-IDV	0.368**	0.171	0.334**	0.327**	0.437**	0.400**	0.421**	0.409**
20200522-Global-IDV	0.322**	0.251**	0.196*	0.168	0.398**	0.452**	0.231*	0.218*
20200622-Global-IDV	0.255**	0.061	0.120	0.136	0.341**	0.375**	0.045	0.050
20200722-Global-IDV	0.227*	-0.009	0.193*	0.196*	0.287**	0.251**	0.072	0.073
20200822-Global-IDV	0.208*	-0.042	0.136	0.136	0.248**	0.153	0.083	0.095
20200922-Global-IDV	0.195*	-0.034	0.167	0.171	0.173	0.016	0.114	0.075
20201022-Global-IDV	0.195	0.087	1000 Carlos		0.219*	0.073	0.227*	
20201122-Global-IDV	0.269**	0.250**	0.344**	0.324**	0.219	0.135	0.389**	0.351**
20201211-Global-IDV	0.289	0.250	0.303**	0.324 $0.317^{**}$	0.242	0.253**	0.389	
20201231-Global-IDV 20201231-Global-IDV	0.284	44	0.337**		0.280	0.253		0.350 0.418 <sup>**</sup>
20201231-Global-IDV 20210111-Global-IDV	0.294	<u>0.318</u> <sup>**</sup> 0.342 <sup>**</sup>	0.337		0.292	0.273	0.353	
20210111-Global-IDV 20210121-Global-IDV	0.301	0.342		0.326	0.299	0.295	0.356	
20210121-Global-IDV 20210130-Global-IDV		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0.0					
20210130-Global-IDV 20210213-Global-IDV	0.306 <sup>***</sup> 0.307 <sup>**</sup>	0.353 <sup>**</sup> 0.350 <sup>**</sup>	<u>0.298</u> 0.303 <sup>**</sup>	0.252	<u>0.310</u> 0.312 <sup>**</sup>	0.328 <sup>***</sup> 0.335 <sup>***</sup>	<u> </u>	0.267
20210219-Global-IDV 20210220-Global-IDV			0.303**				0.305	
20210220-0100a1-1D v	0.307**	0.350	EURO-ID		0.312**	0.340**	0.290	0.287
20200222-EURO-IDV	0.000**	0.420**	0.220		0.160	0.160	20	
20200222-EURO-IDV 20200322-EURO-IDV	0.393**	0.439**	4		0.100		na 0.249	0.243
20200322-EURO-IDV 20200422-EURO-IDV	0.327*	0.386 0.014	0.357 0.275	0.297 <sup>*</sup> 0.229		0.295		
20200422-EURO-IDV 20200522-EURO-IDV	<b>0.359</b> * 0.276		-0.002	-0.003	0.420**	0.343*	0.471**	0.465**
20200322-EURO-IDV 20200622-EURO-IDV	0.276	0.399**	-0.002		0.436**	0.517**	0.374*	
	0.175	0.155	-0.090	1.000 (0.000 and 0.000 and	0.427	0.503**	0.086	0.035
20200722-EURO-IDV 20200822-EURO-IDV	PART OF A DECK	-0.116	1807-19 2700		0.414	0.437**	-0.180	-0.124
	0.061		0.021	-0.048	0.396**	0.359*		
20200922-EURO-IDV	0.074	-0.204	0.197	0.204	0.335	0.196	-0.066	-0.075
20201022-EURO-IDV	0.172	-0.039	0.386	0.361*	0.353*	0.212	0.161	0.210
20201122-EURO-IDV	0.265	-0.013	0.288	0.223	0.353*	0.118	0.314*	0.278
20201211-EURO-IDV	0.272	-0.043	0.134	0.183	0.350*	0.085	0.259	0.271
20201231-EURO-IDV	0.280	-0.008	0.318	0.346	0.347*	0.035	0.281	0.308
20210111-EURO-IDV	0.299*	0.037	0.383**	0.362*	0.355*	0.052	0.366*	
20210121-EURO-IDV	0.304*	0.060	0.323*		0.362*	0.084	0.363*	
20210130-EURO-IDV	0.286	0.051	0.272	0.112	0.364	0.095	0.344	0.179
20210213-EURO-IDV	0.287	0.050		0.317	0.364*	0.111		0.338
20210220-EURO-IDV	0.288	0.053		0.317*	0.364*	0.115	0.335	0.342*
			AFRO-ID					
20200222-AFRO-IDV	na	na	na		na	na	na	
20200322-AFRO-IDV	0.709**	0.417		0.612*	0.107	0.047	0.161	
20200422-AFRO-IDV	0.668**	0.543 <sup>*</sup> 0.459	0.652**		0.244	0.186		0.173
20200522-AFRO-IDV	0.734		0.808**		0.566*	0.344	0.820**	
20200622-AFRO-IDV 20200722-AFRO-IDV	0.791**	0.685	0.796**		0.833**	0.812**	0.815**	
	0.805**	0.829**	0.807**		0.831**	0.871**	0.826**	
20200822-AFRO-IDV	0.804**	0.856**	0.733**	2010 0000000	0.822**	0.881**	0.797**	
20200922-AFRO-IDV	0.799**	0.846**	0.702**		-0.019	0.113	0.788**	
20201022-AFRO-IDV	0.794**	0.839**	0.685**		0.817**	0.877**	0.790**	
20201122-AFRO-IDV	0.793**	0.839**	0.739**		0.816**	0.881**	0.802**	
20201211-AFRO-IDV	0.795**	0.837**	0.813**		0.816**	0.878**	0.812**	
20201231-AFRO-IDV	0.799**	0.816**	0.813**		0.815**	0.870**	0.807**	
20210111-AFRO-IDV	0.802**	0.812**	0.816**		0.815**	0.865**	0.811**	
20210121-AFRO-IDV	0.805**	0.818**	0.821**	0.813**	0.815**	0.860**	0.809**	0.807**
20210130-AFRO-IDV	0.806**	0.818**	0.802**		0.815**	0.859**	0.814**	
20210213-AFRO-IDV	0.806**	0.821**	0.685**		0.815**	0.861**	0.810**	
20210220-AFRO-IDV	0.805**	0.819**		0.658**	0.815	0.861**	0.795**	
	0.805	0.819	0.555	0.058	0.815	0.801	0.795	0.008

<u> </u>	I	0	C			Deetler	Deethe	
Data		Cases - cumulative total	Cases -			Deaths -	Deaths -	
Data	Cumulative	per 1 million	newly reported in	New c	Cumulative	cumulative total per 1 million	newly reported in	New
Date		population	last 7 days		deaths	population	last 7 days	
	cases	population	AMRO-ID	ases	_ueaus	population	Tast / days	deaths
00000000 ALEO IDV	**	***			0.1.00	0.100		
20200222-AMRO-IDV	0.813**	0.650**	0.829**		-0.120	-0.120	na **	na **
20200322-AMRO-IDV 20200422-AMRO-IDV	0.646**	0.599**		0.627**	0.640**	0.472*	0.664**	0.620***
20200422-AMRO-IDV 20200522-AMRO-IDV	0.655	0.625**	<u>0.666<sup>**</sup></u> 0.622 <sup>**</sup>		0.650	0.624 0.327	0.671**	0.652
20200322-AMRO-IDV 20200622-AMRO-IDV	0.657**	<b>0.452</b> * 0.167			0.651**	0.327	0.542** 0.280	0.553 <sup>***</sup> 0.296
20200022-AMRO-IDV 20200722-AMRO-IDV	0.627**	0.107	0.476	0.506*	0.612**	0.041	0.260	
20200722-AMRO-IDV	<u>0.611</u> 0.592 <sup>**</sup>	0.094	0.597	and the second second	0.567 <sup>***</sup> 0.538 <sup>***</sup>	-0.014	0.389	0.412
20200922-AMRO-IDV	0.586**	0.066	0.594**		0.524*	0.032	0.493*	0.403
20201022-AMRO-IDV	0.598**	0.088	0.665**		0.529**	-0.062	0.596**	0.535**
20201122-AMRO-IDV	0.625**	0.190	0.658**		0.545**	-0.041	0.652**	
20201211-AMRO-IDV	0.636**	0.251	0.656**		0.589**	0.077	0.652**	
20201231-AMRO-IDV	0.642**	0.290		0.644**	0.599**	0.108	0.648**	
20210111-AMRO-IDV	0.645**	0.309	0.657**	0.656**	0.605**	0.133	0.643**	0.631**
20210121-AMRO-IDV	0.646**	0.320**	0.651**	0.64**	0.608**	0.146	0.632**	0.559**
20210130-AMRO-IDV	0.646**	0.327		0.644**	0.610**	0.158	0.623**	0.620**
20210213-AMRO-IDV	0.646**	0.335**	0.637**		0.611**	0.170	0.608**	0.613**
20210220-AMRO-IDV	0.645**	0.337		0.587**	0.611**	0.173	0.609**	the second value of the se
			WPRO-ID	V				
20200222-WPRO-IDV	-0.175	-0.264	-0.183	-0.213	-0.174	-0.191	-0.174	-0.176
20200322-WPRO-IDV	-0.189	-0.182	0.498	0.432	-0.179	-0.275	-0.217	-0.148
20200422-WPRO-IDV	-0.152	-0.044	-0.096	-0.123	-0.170	0.284	0.129	0.175
20200522-WPRO-IDV	-0.185	-0.134	-0.174	-0.170	-0.152	0.340	0.107	0.101
20200622-WPRO-IDV	-0.205	-0.146	-0.076		-0.148	0.276	-0.002	-0.059
20200722-WPRO-IDV	-0.153	-0.138	0.112	0.095	-0.144	0.217	0.014	0.410
20200822-WPRO-IDV	-0.042	-0.114	0.027	0.017	-0.090	0.419	0.187	0.082
20200922-WPRO-IDV	-0.096	-0.102	-0.006	-0.055	-0.125	0.418	0.048	0.050
20201022-WPRO-IDV	-0.024	-0.113	-0.029	-0.025	-0.029	0.353	-0.021	-0.074
20201122-WPRO-IDV 20201211-WPRO-IDV	-0.021	-0.119	0.042	0.058	-0.026	0.296	0.005	-0.051
	-0.090	-0.187	-0.065	-0.076	-0.086	0.243	0.021	0.039
20201231-WPRO-IDV	-0.090	-0.201	-0.038	-0.041	-0.083	0.218	-0.006	122210 222
20210111-WPRO-IDV	-0.084	-0.209	0.027	0.026	-0.082	0.199	-0.003	0.010
20210121-WPRO-IDV	-0.077	-0.214	0.002	-0.021	-0.077	0.176	0.006	
20210130-WPRO-IDV	-0.076	-0.219	-0.060	-0.096	-0.070	0.161	0.025	0.029
20210213-WPRO-IDV	-0.082	-0.225	-0.124	-0.134	-0.059	0.140	0.031	0.047
20210220-WPRO-IDV	-0.085	-0.227	-0.136	-0.139	-0.056	0.134	0.033	-0.027
			SEARO-ID	V				
20200222-SEARO-IDV	-0.254	-0.310	-0.341		na	na	na	
20200322-SEARO-IDV 20200422-SEARO-IDV	-0.423	-0.228 -0.626		-0.313	-0.482	-0.574		-0.414
20200422-SEARO-IDV 20200522-SEARO-IDV	0.211	-0.626 -0.134		-0.170	-0.083	-0.680 0.340	0.093	0.237
20200522-SEARO-IDV 20200622-SEARO-IDV	0.364	-0.219	0.387	0.402	0.383	-0.248	0.107	
20200022-SEARO-IDV 20200722-SEARO-IDV	0.415	-0.097	0.466	1000 1000 V	0.402	-0.159	1000 Pauleo	0.380
20200722 SEARO-IDV	0.454	0.136	0.481	0.484	0.430	-0.013		0.446
20200922-SEARO-IDV	0.468	0.253	0.481	0.476	0.482	0.116	0.447	0.425
20201022-SEARO-IDV	0.470	0.234	0.467	0.463	0.440	0.054	0.435	
20201122-SEARO-IDV	0.468	0.205	0.446	0.451	0.436	0.031	0.403	0.405
20201211-SEARO-IDV	0.465	0.185	0.399	0.384	0.430	0.006	0.301	0.283
20201231-SEARO-IDV	0.461	0.188	0.320	0.291	0.422	-0.039	0.086	0.008
20210111-SEARO-IDV	0.457	0.190	0.223	0.165	0.414	-0.067	-0.010	-0.103
20210121-SEARO-IDV	0.452	0.176	0.048	0.053	0.406	-0.104	-0.228	-0.236
20210130-SEARO-IDV	0.448	0.158	-0.002	-0.059	0.397	-0.138	-0.302	-0.147
20210213-SEARO-IDV	0.442	0.134	0.044	0.065	0.387	-0.173	-0.317	-0.338
20210220-SEARO-IDV	0.439	0.126	0.106	0.089	0.382	-0.189	-0.314	-0.247
		0.140	5.100		0.002	0.207	Viera I	

Figure A3. Cont.

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			EMRO-ID	V				
20200222-EMRO-IDV	0.199	-0.029	0.267	0.271	0.156	-0.188	na	0.313
20200322-EMRO-IDV	0.290	0.141	0.252	0.219	0.313	0.324	0.322	0.314
20200422-EMRO-IDV	0.200	-0.182	-0.163	-0.188	0.293	0.321	0.181	0.161
20200522-EMRO-IDV	-0.133	-0.303	-0.505	546*	0.208	0.157	-0.175	-0.191
20200622-EMRO-IDV	-0.420	-0.314	-0.593*	-0.589*	0.021	-0.078	-0.374	-0.277
20200722-EMRO-IDV	-0.450	-0.335	-0.285	-0.226	-0.016	-0.095	0.094	0.134
20200822-EMRO-IDV	-0.366	-0.328	0.138	0.168	0.050	-0.003	0.283	0.300
20200922-EMRO-IDV	-0.262	-0.301	0.330	0.249	0.116	-0.007	0.346	0.323
20201022-EMRO-IDV	-0.116	-0.246	0.525	0.491	0.160	0.250	0.395	0.421
20201122-EMRO-IDV	0.076	-0.161	0.371	0.372	0.231	0.446	0.337	0.378
20201211-EMRO-IDV	0.139	-0.113	0.309	0.332	0.251	0.485	0.343	0.343
20201231-EMRO-IDV	0.161	-0.070	0.378	0.401	0.251	0.521	0.187	0.245
20210111-EMRO-IDV	0.175	-0.031	0.346	0.212	0.251	0.546*	0.273	0.250
20210121-EMRO-IDV	0.187	0.004	0.321	0.392	0.255	0.583*	0.365	0.400
20210130-EMRO-IDV	0.194	0.021	0.270	0.266	0.259	0.614	0.321	0.347
20210213-EMRO-IDV	0.199	0.028	0.234	0.231	0.264	0.639*	0.209	0.196
20210220-EMRO-IDV	0.200	0.027	0.208	0.203	0.263	0.640*	0.173	0.269

**Figure A3.** Before vaccination date comparing IDV. \* p < 0.05; \*\* p < 0.01.

		Casas	Caraa			Deaths -	Deaths	
Data		Cases - cumulative total	Cases - newly			cumulative total	Deaths - newly	
Date	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Date	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
	_Cases	роритаціон	Global-MA	Street Course	_ueaus	population	last / days	ueaus
20200222 Clabal MAR	0.100	0.103		0.094	0.100	0.11.4	0.100	0.000
20200222-Global-MAS 20200322-Global-MAS	0.100	-0.075	0.101	0.094	0.100	0.114	0.100	0.099
20200322-Global-MAS	0.162	-0.073	0.134	0.128	0.138	0.097	0.104	0.100
20200422-Global-MAS			0.098	0.102	0.133	0.008		0.131
20200522-Global-MAS 20200622-Global-MAS	0.110	-0.003	0.079	0.072	0.140	0.088	0.102	0.120
20200822-Global-MAS	0.099	-0.040	0.083	0.085	0.130	0.013	0.100	0.097
20200/22-Global-MAS	0.107	-0.020	0.120	0.130	0.137	0.011	0.116	0.137
20200822-Global-MAS	0.113	0.000	0.112	0.094	0.139	-0.042	0.126	0.123
20200322-Global-MAS	0.114	0.003	0.037	0.094	0.142	0.042	0.113	0.113
20201022-Global-MAS	0.113	0.027	0.132	0.123	0.142	0.050	0.140	0.149
202011122 Global-MAS	0.127	0.029	0.106	0.112	0.159	0.106	0.182	0.176
20201231-Global-MAS	0.128	0.025	0.100	0.112	0.163	0.097	0.180	
20210111-Global-MAS	0.127	0.002	0.130	0.125	0.165	0.089	0.185	
20210121-Global-MAS	0.128	-0.003	0.124	0.130	0.168	0.090	0.188	0.222*
20210130-Global-MAS	0.127	-0.008	0.114	0.100	0.170	0.092	0.190	0.151
20210213-Global-MAS	0.127	-0.006	0.114	0.113	0.171	0.105	0.180	0.171
20210220-Global-MAS	0.127	-0.003	0.119	0.122	0.171	0.107	0.171	0.178
			EURO-MA	S				
20200222-EURO-MAS	0.199	-0.042	0.185	0.173	-0.013	-0.013	na	na
20200322-EURO-MAS	0.190	-0.049	0.217	0.171	0.163	0.165	0.156	0.151
20200422-EURO-MAS	0.177	-0.047	0.091	0.089	0.167	0.058	0.167	0.160
20200522-EURO-MAS	0.110	-0.059	-0.032	-0.033	0.168	0.138	0.142	0.154
20200622-EURO-MAS	0.056	-0.141	-0.083	-0.068	0.156	0.055	0.017	-0.034
20200722-EURO-MAS	0.034	-0.099	-0.033	-0.023	0.150	0.055	-0.049	-0.030
20200822-EURO-MAS	0.023	-0.064	-0.016	0.005	0.146	0.062	-0.060	-0.069
20200922-EURO-MAS	0.020	-0.019	0.020	0.027	0.165	0.208	-0.040	-0.052
20201022-EURO-MAS	0.050	0.067	0.152	0.134	0.132	0.086	0.106	Strate and states
20201122-EURO-MAS	0.135	0.202	0.226	0.195	0.158	0.179	0.249	0.282
20201211-EURO-MAS	0.146	0.170	0.115	0.134	0.184	0.255	0.275	0.259
20201231-EURO-MAS	0.145	0.117	0.122	0.162	0.200	0.259	0.257	0.235
20210111-EURO-MAS	0.153	0.110	0.193	0.201	0.208	0.249	0.271	0.250
20210121-EURO-MAS	0.153	0.101	0.133	0.133	0.214	0.255	0.252	0.237
20210130-EURO-MAS	0.147	0.089	0.101	0.017	0.217	0.259	0.242	0.137
20210213-EURO-MAS 20210220-EURO-MAS	0.145	0.086	0.142 0.161	0.149	0.219	0.272 0.285	0.245	0.275
20210220-EURO-MAS	0.140	0.089	AFRO-MA		0.440	0.283	0.201	0.434
20200222-AFRO-MAS	na	na	AFKO-MA na	s na	na	na	na	na
20200222-AFRO-MAS	0.351	0.212	0.337	0.146	-0.153	-0.119	-0.179	
20200422-AFRO-MAS	0.296	0.016	0.341	0.462	-0.058	-0.097	0.106	
20200522-AFRO-MAS	0.419	-0.273	0.467	0.477	0.195	-0.384	0.436	0.457
20200622-AFRO-MAS	0.471	-0.049	0.468	0.444	0.418	0.045	0.466	0.409
20200722-AFRO-MAS	0.439	0.155	0.432	0.450	0.424	0.163	0.419	
20200822-AFRO-MAS	0.454	0.216	0.602*	0.629**	0.429	0.275	0.460	0.457
20200922-AFRO-MAS	0.472	0.217	0.555		0.157	-0.257	0.462	0.517
20201022-AFRO-MAS	0.482	0.222		0.507*	0.438	0.302	0.454	UNDET
20201122-AFRO-MAS	0.491	0.232	0.488	0.511*	0.446	0.298	0.459	0.519*
20201211-AFRO-MAS	0.491	0.241	0.465	0.406	0.444	0.307	0.421	0.379
20201231-AFRO-MAS	0.483	0.251	0.430		0.439	0.321	0.408	
20210111-AFRO-MAS	0.474	0.259	0.424	0.390	0.434	0.331	0.401	0.399
20210121-AFRO-MAS	0.470	0.256	0.430		0.429	0.338	0.403	0.402
20210130-AFRO-MAS	0.470	0.250	0.457	0.486	0.426	0.341	0.399	0.409
20210213-AFRO-MAS	0.472	0.235	'0.523*	0.488	0.425	0.338	0.408	0.401
20210220-AFRO-MAS	0.474	0.221		<b>'0.576</b> <sup>*</sup>	0.425	0.336	0.436	0.446

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			Cases -	Cases -			Deaths -	Deaths -	
	Data		cumulative total	newly			cumulative total	newly	
Date		Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
		_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
				AMRO-MA	S				
20200222-AN	fRO-MAS	0.199	0.083	0.163	0.163	-0.120	-0.120	na	na na
20200322-AN		0.197	0.037	0.194	0.189	0.190	0.132	0.192	
20200422-AN		0.196	0.157	0.202	0.208	0.203	0.225	0.196	
20200522-AN		0.194	0.043	0.173	0.133	0.220	0.132	0.171	0.212
20200622-AN		0.167	-0.194	0.129	0.116	0.220	0.005	0.152	0.122
20200722-AN	and the state of the second second second	0.175	-0.202	0.210		0.221	-0.052	0.195	
20200822-AN		0.182	-0.187	0.204	0.191	0.225	-0.066	0.215	
20200922-AN		0.186	-0.206	0.216	0.210	0.231	-0.153	0.242	0.294
20201022-AN		0.194	-0.196	0.244	0.259	0.240	-0.056	0.281	0.295
20201122-AN		0.204	-0.162	0.213	0.210	0.251	-0.044	0.282	0.287
20201211-AN		0.205	-0.135	0.209	0.209	0.266	0.028	0.269	
20201231-AN		0.207	-0.108	0.214	0.204	0.268	0.034	0.276	
20210111-AN		0.208	-0.098	0.211	0.216	0.269	0.039	0.274	0.283
20210121-AN		0.209	-0.092	0.222	0.229	0.271	0.042	0.290	
20210130-AN		0.210	-0.089	0.222	0.218	0.273	0.050	0.298	_
20210213-AN	A CONTRACTOR OF	0.210	-0.088	0.202	0.193	0.274	0.057	0.292	0.287
20210220-AN	IRO-MAS	0.209	-0.090	0.184	0.175	0.274	0.059	0.276	0.271
20200222-WF	DOMAS	0.210	0.134	<b>WPRO-MA</b> 0.203	0.143	0.211	0.219	0.212	0.208
20200222-WF 20200322-WF		0.210	-0.312	0.203	0.143	0.211	0.219	0.212	0.208
20200322-WF 20200422-WF		0.184	-0.144	0.113	0.138	0.212	0.237	0.232	
20200422-WI 20200522-WF	the second s	0.284	-0.144	-0.050	0.058	0.261	0.237	0.777	0.830**
20200622-WF		0.300	-0.150	0.172	0.166	0.400	0.548	0.421	0.155
20200722-WF		0.378	-0.137	0.428	0.391	0.418	0.470	0.176	0.408
20200822-WF		0.453	-0.099	0.341	0.337	0.456	0.421	0.371	0.372
20200922-WF	PRO-MAS	0.392	-0.076	0.281	0.219	0.435	0.298	0.273	0.501
20201022-WF	PRO-MAS	0.394	-0.062	0.303	0.376	0.447	0.341	0.274	0.210
20201122-WF	PRO-MAS	0.423	-0.046	0.679*	0.718**	0.440	0.337	0.395	0.301
20201211-WF	PRO-MAS	0.453	-0.066	0.632*	0.597	0.458	0.328	0.739	0.770**
20201231-WF	PRO-MAS	0.499	-0.055	0.664*	0.630	0.502	0.356	0.702*	0.624
20210111-WF	PRO-MAS	0.554	-0.032		0.766**	0.537	0.376	0.710*	0.706*
20210121-WF	PRO-MAS	0.595	-0.011	0.704	0.648*	0.560	0.393	0.734	0.760*
20210130-WF	PRO-MAS	0.608	-0.003	0.527	0.350	0.588	0.420	0.756	0.781**
20210213-WF	Strategy - Constraints - Constraints	0.599	-0.009	0.278	0.232	0.626	0.458	0.768**	0.805**
20210220-WF		0.592	-0.011	0.275				0.708	
				SEARO-MA		0.050		0.774	
20200222-SE	ARO-MAS	-0.162	-0,446	-0.139		na	na	na	na
20200322-SE	ARO-MAS	0.192	-0.501	0.187	0.080	0.286	0.231	0.264	1
20200422-SE		0.629	0.090	0.661	0.655	0.594	0.296	0.674	0.647
20200522-SE	A CONTRACTOR OF THE OWNER	0.299	-0.149	-0.050		0.365	0.546	0.793**	0.844**
20200622-SE		0.632	0.679	0.623	0.609	0.574	0.793*	0.529	
20200722-SE	Contraction and States and States	0.583	0.770*	0.522	0.524	0.561	0.804*	0.537	
20200822-SE		0.537	0.803*	0.503		0.540	0.801	0.516	
20200922-SE		0.519	0.745	0.495	0.500	0.226	0.784	0.515	
20201022-SE 20201122-SE	A BOARDER STORAGE BUTTER A	0.514	0.626 0.514	0.511	0.513	0.528	<b>0.775</b> *	0.523	
20201122-SE	the second second second	0.514	0.314	0.523	0.520	0.530	0.715	0.542	
20201211-SE		0.518	0.472	0.553		0.532	0.725	0.582	
20201251-SE		0.518	0.442	0.555		0.530	0.723	0.569	
20210111-SE		0.521	0.430	0.532	0.504	0.543	0.697	0.369	
20210121 SE		0.523	0.400	0.511	0.492	0.546	0.681	0.424	
20210130 SE		0.525	0.370	0.503	0.507	0.550	0.652	0.399	1000
20210219 SE		0.526	0.358	0.524	0.533	0.550	0.636	0.401	0.444
20210220-DE	GAINI-ONE	0.320	0.338	0.324	0.333	0.331	0.030	0.401	0.444

Figure A4. Cont.

		Cases -	Cases -			Deaths -	Deaths -	
Data	1000 Co. 100	cumulative total	newly	-		cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_c	Cumulative		reported in	New_
	cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			EMRO-MA	S				
20200222-EMRO-MAS	-0.240	0.068	-0.280	-0.279	-0.150	0.105	na	-0.272
20200322-EMRO-MAS	-0.263	-0.162	-0.262	-0.213	-0.266	-0.251	-0.280	-0.268
20200422-EMRO-MAS	-0.247	-0.035	-0.093	-0.041	-0.273	-0.263	-0.302	-0.296
20200522-EMRO-MAS	-0.173	0.010	-0.059	-0.094	-0.286	-0.361	-0.276	-0.240
20200622-EMRO-MAS	-0.072	0.039	0.129	0.129	-0.241	-0.273	0.000	0.040
20200722-EMRO-MAS	0.029	0.048	0.289	0.286	-0.146	-0.029	-0.029	-0.073
20200822-EMRO-MAS	0.129	0.068	0.525	0.547*	-0.110	0.060	0.114	0.157
20200922-EMRO-MAS	0.226	0.094	0.372	0.358	-0.126	0.005	0.023	0.015
20201022-EMRO-MAS	0.242	0.106	0.063	0.015	-0.085	0.103	-0.211	-0.236
20201122-EMRO-MAS	0.125	0.073	-0.242	-0.241	-0.143	-0.118	-0.299	-0.291
20201211-EMRO-MAS	0.044	0.022	-0.238	-0.246	-0.166	-0.198	-0.312	-0.311
20201231-EMRO-MAS	0.016	0.024	-0.245	-0.227	-0.178	-0.223	-0.394	-0.400
20210111-EMRO-MAS	0.005	0.046	-0.140	-0.163	-0.186	-0.239	-0.459	-0.446
20210121-EMRO-MAS	-0.003	0.065	-0.128	-0.193	-0.190	-0.224	-0.349	-0.302
20210130-EMRO-MAS	-0.011	0.075	-0.151	-0.163	-0.193	-0.195	-0.265	-0.293
20210213-EMRO-MAS	-0.020	0.079	-0.113	-0.056	-0.194	-0.121	-0.227	-0.174
20210220-EMRO-MAS	-0.021	0.080	-0.046	0.033	-0.195	-0.108	-0.260	-0.247

**Figure A4.** Before vaccination date comparing MAS. \* p < 0.05; \*\* p < 0.01.

<u> </u>		2	q			D I	D 1	
		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			Global-UA	I				
20200222-Global-UAI	-0.161	-0.243**	-0.157	-0.139	-0.161	-0.127	-0.161	-0.161
20200322-Global-UAI	-0.101	-0.013	-0.006	0.003	-0.041	0.064	0.041	0.058
20200422-Global-UAI	-0.064	0.115	-0.055	-0.052	-0.045	0.097	-0.076	-0.064
20200522-Global-UAI	-0.049	0.091	-0.014	0.000	-0.047	0.091	-0.017	-0.020
20200622-Global-UAI	-0.026	0.135	-0.008	-0.018	-0.028	0.093	0.036	0.032
20200722-Global-UAI	-0.040	0.193*	-0.080	-0.084	-0.014	0.150	0.001	0.008
20200822-Global-UAI	-0.052	0.245**	-0.070	-0.061	-0.012	0.187*	-0.014	-0.016
20200922-Global-UAI	-0.064	0.296**	-0.083	-0.084	-0.024	0.203*	-0.030	-0.029
20201022-Global-UAI	-0.058	0.346**	-0.032	0.022	-0.012	0.257**	0.010	0.033
20201122-Global-UAI	-0.048	0.415**	-0.040	-0.036	-0.001	0.343**	0.055	0.030
20201211-Global-UAI	-0.050	0.407**	-0.045	-0.042	-0.010	0.412**	0.019	0.015
20201231-Global-UAI	-0.05279	0.377**	-0.07014576	-0.081	-0.0072348	0.426**	-0.00213968	0.036
20210111-Global-UAI	-0.0563607	0.354**	-0.08022008	-0.077	-0.0099295	0.420	-0.03939006	-0.05
20210121-Global-UAI	-0.0563999	0.344**	-0.05322572	-0.036	-0.0118091	0.402**	-0.0405079	-0.027
20210121-Global-UAI	-0.0528219	0.344	-0.03267617	-0.021	-0.0128809	0.402	-0.02899639	0.005
20210213-Global-UAI	-0.0511086	0.340**	-0.01660231	-0.016	-0.0130129	0.378**	-0.00660589	-0.022
20210220-Global-UAI	-0.0498556	0.336**	-6.6126E-05	0.011	-0.0123136	0.377**	-0.00623115	0.007
Dollollo Gloota ora	0.0 120350	0.330	EURO-UA		0.0125150	0.377	0.00025112	0.007
20200222-EURO-UAI	-0.101	-0.219	-0.027	-0.002	0.082	0.082	na	na
20200322-EURO-UAI	-0.036	-0.267	-0.057	-0.020	0.017	0.002	0.009	0.021
20200422-EURO-UAI	-0.052	0.037	-0.008	0.010	-0.099	-0.055	-0.181	-0.173
20200522-EURO-UAI	-0.007	-0.236	0.112	0.098	-0.128	-0.145	-0.131	-0.169
20200622-EURO-UAI	0.050	-0.126	0.154	0.176	-0.123	-0.209	0.048	0.069
20200722-EURO-UAI	0.091	0.044	0.249	0.250	-0.110	-0.175	0.206	0.195
20200822-EURO-UAI	0.131	0.165	0.223	0.185	-0.092	-0.126	0.309*	0.312*
20200922-EURO-UAI	0.153	0.223	0.129	0.114	0.059	0.075	0.272	0.268
20201022-EURO-UAI	0.128	0.207	0.043	0.060	-0.041	0.015	0.184	0.150
20201022-EURO-UAI	0.128	0.207	0.043	0.134	0.006	0.013	0.134	0.150
20201122-EURO-UAI	0.113	0.247	0.037	0.023	0.000	0.104	0.134	0.133
20201231-EURO-UAI	0.110	0.227	-0.142	-0.197	0.020	0.222	0.120	0.123
20201231-EURO-UAI 20210111-EURO-UAI	0.078	0.144	-0.142	-0.197	0.032	0.230	-0.116	-0.171
20210111-EURO-UAI 20210121-EURO-UAI	0.044	0.080	-0.093	-0.086	0.018	0.179	-0.116	-0.171
20210121-EURO-UAI 20210130-EURO-UAI	0.030	0.055	-0.093	0.199	-0.010	0.179	-0.143	0.140
20210130-EURO-UAI 20210213-EURO-UAI	0.037	0.063	0.024	0.199	-0.010	0.139	-0.104	
20210213-EURO-UAI 20210220-EURO-UAI	0.037			0.008	-0.017			-0.080
20210220-E0RO-0AI	0.038	0.005	AFRO-UA		-0.018	0.130	-0.034	-0.023
20200222-AFRO-UAI	na	na	na	r	na	na	na	na
20200322-AFRO-UAI	0.117	0.013	0.163	0.287	0.516	0.494	0.516	
20200422-AFRO-UAI	0.261	0.556*	0.235	-	0.499*	0.505*	0.392	
20200522-AFRO-UAI	0.115	0.602*		-0.062	0.354	0.645**	-0.026	
20200622-AFRO-UAI	-0.083	0.385		-0.132	-0.064	0.302	-0.075	
20200722-AFRO-UAI	-0.137	0.136		-0.136	-0.116	0.143	-0.178	_
20200822-AFRO-UAI	-0.143	0.030	20000000	-0.218	-0.143	-0.014		-0.200
20200922-AFRO-UAI	-0.144	-0.039	Consider the	-0.128	0.171	0.343		-0.116
20201022-AFRO-UAI	-0.144	-0.052	-0.170	-0.125	-0.145	-0.078	-0.135	0.024
20201122-AFRO-UAI	-0.142	-0.066		-0.035	-0.141	-0.062	-0.123	
20201122-ATRO-UAI	-0.142	-0.083		-0.169	-0.139	-0.073	-0.125	
20201231-AFRO-UAI	-0.135	-0.140		-0.192	-0.145	-0.099		-0.130
20201231-AFRO-UAI 20210111-AFRO-UAI	-0.140	-0.140		-	-0.143	-0.127	-0.180	
				-0.211				64725-13215045
20210121-AFRO-UAI	-0.162	-0.189		-0.234	-0.159	-0.150	-0.195	
					0164	0107		0 000
20210130-AFRO-UAI	-0.166	-0.200	-0.237	-0.299	-0.164	-0.167	-0.204	0.000
	-0.166 -0.169	-0.200 -0.195	-0.237 -0.227	-0.299 -0.274 -0.325	-0.164 -0.168	-0.167 -0.174	-0.204 -0.207	-0.208

		Casas	Casas			Deaths -	Deaths -	
Data		Cases - cumulative total	Cases - newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Date	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
	_00305	population	AMRO-UA	Street and	_doddis	population	fust / duys	deduis
20200222-AMRO-UAI	-0.335	-0.284	-0.352	-0.352	0.143	0.143	na	na
20200322-AMRO-UAI	-0.254	-0.191	-0.260	-0.249	-0.252	-0.368	-0.264	-0.242
20200422-AMRO-UAI	-0.257	-0.301	-0.294	-0.259	-0.251	-0.297	-0.257	-0.239
20200522-AMRO-UAI	-0.240	-0.176	-0.223	-0.132	-0.223	-0.096	-0.123	-0.119
20200622-AMRO-UAI	-0.191	0.045	-0.130	-	-0.169	0.051	0.053	0.047
20200722-AMRO-UAI	-0.180	0.084	-0.213	-0.190	-0.127	0.133	0.006	0.008
20200822-AMRO-UAI	-0.165	0.121	-0.142	-0.103	-0.103	0.173	0.008	-0.019
20200922-AMRO-UAI	-0.154	0.136	-0.176	-0.149	-0.090	0.271	-0.022	0.018
20201022-AMRO-UAI	-0.156	0.119	-0.224	-0.161	-0.083	0.210	-0.069	-0.029
20201122-AMRO-UAI	-0.178	0.120	-0.273	-0.236	-0.089	0.214	-0.176	-0.187
20201211-AMRO-UAI	-0.191	0.063	-0.238	-0.232	-0.126	0.195	-0.199	-0.202
20201231-AMRO-UAI	-0.200	0.033	-0.234	-0.239	-0.136	0.184	-0.196	-0.198
20210111-AMRO-UAI	-0.205	0.028	-0.232	-0.227	-0.142	0.175	-0.193	-0.183
20210121-AMRO-UAI	-0.206	0.029	-0.219		-0.145	0.177	-0.180	
20210130-AMRO-UAI	-0.206	0.030	-0.210	-0.202	-0.147	0.174	-0.172	-0.174
20210213-AMRO-UAI	-0.206	0.029	-0.196		-0.149	0.173	-0.158	-0.165
20210220-AMRO-UAI	-0.206	0.029	-0.171	-0.143	-0.149	0.172	-0.161	-0.136
			WPRO-UA					
20200222-WPRO-UAI	-0.225	-0.348	-0.201	-0.108	-0.227	-0.263	-0.227	-0.223
20200322-WPRO-UAI	-0.174	0.132	0.275	0.064	-0.207	0.108	0.116	0.135
20200422-WPRO-UAI	-0.162	-0.478	-0.244	-0.332	-0.179	0.226	0.500	0.579*
20200522-WPRO-UAI 20200622-WPRO-UAI	-0.257 -0.312	-0.502 -0.506	-0.478 -0.156	-0.406	-0.117 -0.098	0.287	0.496	0.589
20200022-WFRO-UAI 20200722-WPRO-UAI	-0.312	-0.509	0.062	0.019	-0.098	0.262	-0.093	0.209
20200722-WIRO-UAI 20200822-WPRO-UAI	-0.202	-0.507	0.002	0.109	-0.097	0.058	0.034	0.116
20200922-WPRO-UAI	-0.020	-0.478	0.047	0.009	-0.062	0.013	0.054	0.379
20201022-WPRO-UAI	-0.012	-0.495	0.053	0.128	-0.031	0.050	0.052	0.031
20201122-WPRO-UAI	0.028	-0.491	0.435	0.457	-0.015	0.051	0.147	0.090
20201211-WPRO-UAI	0.102	-0.485	0.553	0.582	0.033	0.146	0.551	0.693*
20201231-WPRO-UAI	0.172	-0.452	0.656*	0.640*	0.097	0.222	0.770**	0.647*
20210111-WPRO-UAI	0.235	-0.422	0.600	0.564	0.150	0.283	0.763*	0.756*
20210121-WPRO-UAI	0.278	-0.396	0.508	0.451	0.186	0.315	0.626	0.596
20210121-WIRO-UAI 20210130-WPRO-UAI	0.278	-0.378	0.308	0.431	0.130	0.341	0.547	0.629
20210130-WI RO-UAI 20210213-WPRO-UAI	0.295	-0.361	0.371	0.118	0.221	0.341	0.547	0.618
20210213-WPRO-UAI 20210220-WPRO-UAI	0.293	-0.351		0.118		0.387		0.183
20210220-WFRO-OAI	0.294	-0.333			0.278	0.373	0.537	0.185
20200222-SEARO-UAI	0.579	0.549	SEARO-UA 0.626		120		20	120
20200222-SEARO-UAI 20200322-SEARO-UAI	0.379	0.451		0.560	<u>na</u> 0.057	0.138	0.024	0.036
20200422-SEARO-UAI	-0.032	0.812*		-0.077	-0.029	0.380	-0.057	
20200522-SEARO-UAI	-0.257	-0.502	-0.478	-0.406	-0.117	0.287	0.496	0.589
20200622-SEARO-UAI	-0.095	0.274		-0.124	-0.169	0.227	-0.195	-0.187
20200722-SEARO-UAI	-0.145	0.194	11201 1201 1201	-0.195	-0.178	0.167		-0.191
20200822-SEARO-UAI	-0.184	0.009		-0.216	-0.193	0.058	-0.210	
20200922-SEARO-UAI	-0.202	-0.151		-0.223	-0.221	-0.053	-0.216	
20201022-SEARO-UAI	-0.209	-0.247		-0.231	-0.205	-0.100	-0.219	
20201122-SEARO-UAI	-0.212	-0.277		-0.216	-0.208	-0.162		-0.266
20201211-SEARO-UAI	-0.212	-0.280	TUST TRAFT	-0.201	-0.205	-0.118	Start La strates	-0.192
20201231-SEARO-UAI	-0.211	-0.303		-0.192	-0.204	-0.112	-0.135	
20210111-SEARO-UAI	-0.211	-0.321		-0.153	-0.203	-0.114	-0.111	
20210121-SEARO-UAI	-0.210	-0.325		-0.142	-0.202	-0.107	-0.053	
20210130-SEARO-UAI	-0.210	-0.323		-0.090	-0.201	-0.100	-0.028	100.000 1000
20210213-SEARO-UAI	-0.209	-0.320		-0.146	-0.200	-0.092		-0.024
20210220-SEARO-UAI	-0.209	-0.320	-0.154	-0.152	-0.199	-0.088	-0.020	-0.052

Figure A5. Cont.

Data		Cases - cumulative total	Cases - newly			Deaths - cumulative total	Deaths - newly			
Date	Cumulative cases	per 1 million population	reported in last 7 days	New_c ases	Cumulative deaths	per 1 million population	reported in last 7 days	New_ deaths		
EMRO-UAI										
20200222-EMRO-UAI	-0.255	-0.071	-0.294	-0.298	-0.206	0.209	na	-0.348		
20200322-EMRO-UAI	-0.338	-0.178	-0.338	-0.341	-0.344	-0.354	-0.340	-0.335		
20200422-EMRO-UAI	-0.273	0.227	0.006	0.058	-0.332	-0.320	-0.299	-0.296		
20200522-EMRO-UAI	-0.055	0.350	0.228	0.186	-0.309	-0.156	-0.168	-0.179		
20200622-EMRO-UAI	0.087	0.359	0.216	0.219	-0.216	0.113	0.097	0.133		
20200722-EMRO-UAI	0.159	0.394	0.268	0.260	-0.132	0.224	-0.085	-0.132		
20200822-EMRO-UAI	0.185	0.409	0.208	0.195	-0.134	0.182	-0.087	-0.034		
20200922-EMRO-UAI	0.203	0.411	0.058	0.022	-0.164	0.144	-0.172	-0.194		
20201022-EMRO-UAI	0.150	0.376	-0.169	-0.214	-0.159	0.039	-0.304	-0.310		
20201122-EMRO-UAI	-0.025	0.265	-0.423	-0.421	-0.216	-0.136	-0.361	-0.348		
20201211-EMRO-UAI	-0.117	0.186	-0.416				-0.384			
20201231-EMRO-UAI	-0.153	0.126	-0.481	-0.483			-0.344			
20210111-EMRO-UAI	-0.180	0.062	565*	-0.525	-0.250	-0.276	-0.268	-0.194		
20210121-EMRO-UAI	-0.202	0.007	-0.510	-0.459	-0.256	-0.325	-0.417	-0.493		
20210130-EMRO-UAI	-0.216	-0.022	-0.425	-0.391	-0.261	-0.376	-0.468	-0.371		
20210213-EMRO-UAI	-0.229	-0.045	-0.341	-0.323	-0.273	-0.462	-0.459	-0.446		
20210220-EMRO-UAI	-0.231	-0.051	-0.271	-0.191	-0.275	-0.477	-0.431	-0.480		

**Figure A5.** Before vaccination date comparing UAI. \* p < 0.05; \*\* p < 0.01.

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Dute	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
		population	Global-LT	1000		population	last / aujs	acauto
20200222-Global-LTO	0.183	0.247*	0.195	0.233*	0.182	0.186	0.183	0.183
20200322-Global-LTO	0.198*	0.119	0.083	0.061	0.131	0.070	0.054	0.062
20200322 Global-LTO	0.010	0.151	-0.023	-0.017	0.032	0.108	-0.022	-0.022
20200122 Global LTO 20200522-Global-LTO	-0.008	0.130	-0.043	-0.043	-0.020	0.013	-0.068	-0.080
20200622-Global-LTO	-0.028	0.079	-0.062	-0.057	-0.047	-0.016	-0.097	-0.119
20200022-Global-LTO	-0.050	0.038	-0.084	-0.080	-0.070	-0.050	-0.119	-0.135
20200722 Global-LTO	-0.056	-0.028	-0.057	-0.050	-0.087	-0.082	-0.115	-0.099
20200922-Global-LTO	-0.041	-0.048	-0.022	-0.004	-0.100	-0.109	-0.082	-0.059
20201022-Global-LTO	-0.038	0,009	0.013	0.053	-0.094	-0.104	-0.072	-0.057
20201122-Global-LTO	-0.024	0.191	-0.009	-0.016	-0.085	-0.025	0.006	-0.024
20201211-Global-LTO	-0.027	0.237*	-0.019	-0.008	-0.069	0.082	0.019	0.019
20201231-Global-LTO	-0.0202145	0.259**	-0.0133589	1E-04	-0.0522064	0.137128158	0.037039285	0.134
20210111-Global-LTO	-0.0224911	0.257*	-0.03751344	-0.046	-0.0491853	0.162481535	0.009283491	-0.035
20210121-Global-LTO	-0.0235874	0.250*	-0.04385251	-0.026	-0.0454638	0.176416161	0.001471857	0.018
20210130-Global-LTO	-0.0245112	0.244	-0.04537489	-0.049	-0.0448709	0.177058836	-0.02633352	-0.039
20210213-Global-LTO	-0.0252852	0.247*	-0.02745798	-0.019	-0.044561	0.185076162	-0.02624444	-0.037
20210220-Global-LTO	-0.0245912	0.257*	-0.00611167	0.012	-0.0435817	0.185975789	-0.02327285	-0.018
			EURO-LTO	0				
20200222-EURO-LTO	0.094	-0.192	0.023	0.028	0.045	0.045	na	na
20200322-EURO-LTO	0.022	-0.223	0.057	0.015	-0.008	-0.057	-0.002	-0.022
20200422-EURO-LTO	-0.004	-0.018	0.012	0.030	-0.054	-0.164	-0.078	-0.068
20200522-EURO-LTO	0.084	-0.308*	0.196	0.198	-0.058	-0.282	-0.006	0.014
20200622-EURO-LTO	0.138	-0.161	0.222	0.254	-0.044	-0.271	0.189	0.137
20200722-EURO-LTO	0.164	-0.033	0.199	0.201	-0.028	-0.248	0.242	0.188
20200822-EURO-LTO	0.145	-0.007	0.113	0.015	-0.014	-0.218	0.223	0.193
20200922-EURO-LTO	0.106	-0.027	0.021	-0.004	0.058	-0.073	0.097	0.140
20201022-EURO-LTO	0.074	-0.100	0.036	0.016	0.007	-0.158	0.115	0.106
20201122-EURO-LTO	0.072	-0.039	0.117	0.087	0.016	-0.118	0.046	-0.025
20201211-EURO-LTO	0.114	-0.005	0.152	0.172	0.035	-0.096	0.146	0.143
20201231-EURO-LTO	0.122	0.043	0.135	0.105	0.056	-0.050	0.208	0.225
20210111-EURO-LTO	0.114	0.028	0.032	0.028	0.067	-0.018	0.170	0.100
20210121-EURO-LTO	0.104	0.004	0.017	0.044	0.073	-0.010	0.113	0.088
20210130-EURO-LTO 20210213-EURO-LTO	0.083	-0.017 -0.015	0.023	0.152	0.074	-0.018 -0.025	0.089	0.189
20210213-EURO-LTO 20210220-EURO-LTO	0.079	-0.015	0.079	0.161	0.073	-0.025	0.104	0.156
20210220-EORO-ETO	0.060	-0.002	AFRO-LTO		0.070	-0.014	0.100	0.103
20200222-AFRO-LTO	na	na	na	na	na	na	na	na
20200222-AFRO-LTO	0.311	0.497	0.287	0.280	0.084	0.100	0.065	
20200422-AFRO-LTO	0.128	0.198	0.002	0.110	0.095	0.106	0.159	
20200522-AFRO-LTO	0.040	0.243	0.164	0.137	0.122	0.306	0.203	0.201
20200622-AFRO-LTO	0.168	0.310	0.215	0.185	0.268	0.412	0.196	0.339
20200722-AFRO-LTO	0.240	0.365	0.271	0.249	0.279	0.413	0.307	0.311
20200822-AFRO-LTO	0.249	0.401	0.278	0.305	0.289	0.397	0.297	0.304
20200922-AFRO-LTO	0.252	0.448	0.242	0.261	-0.002	0.249	0.301	0.308
20201022-AFRO-LTO	0.251	0.454	0.235	0.233	0.291	0.412	0.289	0.064
20201122-AFRO-LTO	0.250	0.453	0.258	0.230	0.291	0.418	0.310	
20201211-AFRO-LTO	0.254	0.458	0.284	0.286	0.292	0.414	0.307	0.311
20201231-AFRO-LTO	0.261	0.471	0.297	0.307	0.295	0.407	0.304	0.307
20210111-AFRO-LTO	0.267	0.474	0.295	0.304	0.297	0.407	0.310	0.325
20210121-AFRO-LTO	0.267	0.480	0.267	0.255	0.297	0.402	0.297	0.294
20210130-AFRO-LTO	0.265	0.482	0.192	0.197	0.298	0.400	0.299	0.299
20210213-AFRO-LTO	0.259	0.487	-0.002	-0.015	0.297	0.401	0.275	0.266
20210220-AFRO-LTO	0.255	0.492	-0.132	0.050	0.295	0.400	0.247	0.276
	5. m J J	V. 174	0.154	0.000	0.410	0.100	V. 4 11	0.410

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	and the second second	
Date	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Dute	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
		population	AMRO-LT			population	iase , ange	Goddin
20200222-AMRO-LTO	0.269	0.384	0.341	0.341	0.078	0.078	na	na
20200322-AMRO-LTO	0.137	0.260	0.152	0.108	0.136	0.079	0.162	0.109
20200422-AMRO-LTO	0.153	0.214	0.165	0.180	0.155	0.182	0.182	0.167
20200522-AMRO-LTO	0.239	0.380	0.405	0.524*	0.257	0.302	0.489	0.469
20200622-AMRO-LTO	0.392	0.444	0.598*		0.379	0.346	0.570*	0.599*
20200722-AMRO-LTO	0.406	0.438	0.378	0.284	0.430	0.341	0.519*	0.394
20200822-AMRO-LTO	0.421	0.343	0.459	0.467	0.443	0.297	0.498*	0.530*
20200922-AMRO-LTO	0.428	0.268	0.409	0.318	0.452	0.277	0.480	0.379
20201022-AMRO-LTO	0.414	0.198	0.253	0.293	0.453	0.265	0.375	0.413
20201122-AMRO-LTO	0.363	0.273	0.186	0.216	0.438	0.257	0.280	0.260
20201211-AMRO-LTO	0.334	0.319	0.213	0.249	0.416	0.377	0.252	0.252
20201231-AMRO-LTO	0.317	0.208	0.211	0.162	0.407	0.341	0.266	0.260
20210111-AMRO-LTO	0.305	0.209	0.222	0.248	0.396	0.337	0.288	0.295
20210121-AMRO-LTO	0.300	0.211	0.255	0.321	0.388	0.336	0.288	0.346
20210130-AMRO-LTO	0.299	0.216	0.288	0.321	0.382	0.335	0.289	0.301
20210213-AMRO-LTO	0.301	0.230	0.355	0.394	0.376	0.338	0.317	0.317
20210220-AMRO-LTO	0.304	0.239	0.429	0.478	0.374	0.340	0.335	0.400
			WPRO-LT	0				
20200222-WPRO-LTO	0.298	0.391	0.321	0.399	0.295	0.296	0.296	0.300
20200322-WPRO-LTO	0.341	0.446	-0.077	-0.372	0.310	0.549	0.429	0.031
20200422-WPRO-LTO	0.334	0.052	0.182	0.164	0.291	-0.108	0.017	0.247
20200522-WPRO-LTO	0.341	0.094	-0.042	-0.015	0.288	-0.168	0.051	0.304
20200622-WPRO-LTO	0.269	0.094	-0.312	-0.336	0.269	-0.203	-0.264	-0.400
20200722-WPRO-LTO	0.082	0.073	-0.367	-0.368	0.205	-0.320	-0.430	-0.178
20200822-WPRO-LTO	-0.158	0.027	-0.329	-0.320	0.084	-0.557	-0.456	
20200922-WPRO-LTO	-0.171	-0.006	-0.358	-0.366	0.009	-0.574	-0.394	-0.152
20201022-WPRO-LTO 20201122-WPRO-LTO	-0.265 -0.272	-0.036 -0.065	-0.398	-0.345	-0.148	-0.576 -0.562	-0.378	-0.365
20201122-WPRO-LTO 20201211-WPRO-LTO	-0.272		-0.047	0.186	-0.184	-0.501	-0.307	0.343
		-0.014	1000 V - 10 PC	- House of the sol		and the second se	Historia and Andrews	and the second
20201231-WPRO-LTO	-0.144	-0.008	0.285	0.308	-0.080	-0.436	0.416	0.224
20210111-WPRO-LTO	-0.103	-0.005	0.263	0.206	-0.047	-0.384	0.412	0.460
20210121-WPRO-LTO	-0.075	-0.012	0.163	0.116	-0.036	-0.347	0.190	0.161
20210130-WPRO-LTO	-0.066	-0.024	0.040	-0.063	-0.024	-0.319	0.104	0.217
20210213-WPRO-LTO	-0.074	-0.051	-0.158		-0.010	-0.288	0.085	0.244
20210220-WPRO-LTO	-0.077	-0.059	-0.159	-0.205	-0.005	-0.279	0.094	-0.264
			SEARO-LT	0				
20200222-SEARO-LTO	-0.827	-0.863	-0.795		na	na	na	na
20200322-SEARO-LTO	-0.057	-0.751	-0.093		0.798	0.720	0.800	
20200422-SEARO-LTO	0.400	-0.482	0.390		0.777	0.663	0.649	
20200522-SEARO-LTO 20200622-SEARO-LTO	0.341	0.094	-0.042 0.253		0.288	-0.168 0.743	0.051	
20200622-SEARO-LTO 20200722-SEARO-LTO	0.275	0.221	0.253	0.241	0.337	0.743	0.248	
20200722-SEARO-LTO 20200822-SEARO-LTO	0.230	0.293	0.223	0.228	0.316	0.646	0.297	
20200822-SEARO-LTO 20200922-SEARO-LTO	0.229	0.342	0.212	0.211	0.284	-0.101	0.230	
20200922-SEARO-LTO 20201022-SEARO-LTO	0.224	0.393	0.222	0.250	0.240	0.640	0.276	
20201022-SEARO-LTO	0.227	0.424	0.243	0.265	0.275	0.679	0.338	
20201211-SEARO-LTO	0.237	0.454	0.343	0.360	0.293	0.708	0.330	
20201231-SEARO-LTO	0.244	0.497	0.457	0.496	0.307	0.757	0.699	
20210111-SEARO-LTO	0.251	0.532	0.563	0.624	0.318	0.792	0.772	0.829
20210121-SEARO-LTO	0.258	0.575	0.731	0.731	0.331	0.828	0.860	
20210130-SEARO-LTO	0.266	0.613	0.746		0.344	0.855	0.864	0.839
20210213-SEARO-LTO	0.276	0.661	0.739	0.727	0.359	0.885*	0.865	0.852
20210220-SEARO-LTO	0.279	0.679	0.689	0.702	0.366	0.898*	0.868	0.860
avaivado bintico-bio	0.412	0.072	0.007	0.104	0.500	0.898	0.000	0.000

Figure A6. Cont.

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			EMRO-LT	0				
20200222-EMRO-LTO	-0.352	-0.371	-0.242	-0.242	-0.193	-0.012	na	-0.242
20200322-EMRO-LTO	-0.224	-0.267	-0.177	-0.103	-0.245	-0.252	-0.249	-0.249
20200422-EMRO-LTO	-0.141	-0.161	0.223	0.243	-0.238	-0.266	-0.169	-0.156
20200522-EMRO-LTO	0.155	0.144	0.466	0.512	-0.169	-0.228	0.176	0.243
20200622-EMRO-LTO	0.437	0.286	0.682*	0.653*	-0.019	-0.121	0.277	0.118
20200722-EMRO-LTO	0.481	0.310	0.366	0.284	-0.014	-0.075	-0.123	-0.142
20200822-EMRO-LTO	0.431	0.257	0.017	-0.003	-0.060	-0.095	-0.168	-0.184
20200922-EMRO-LTO	0.357	0.139	-0.153	-0.137	-0.142	-0.222	-0.246	-0.246
20201022-EMRO-LTO	0.237	-0.086	-0.353	-0.374	-0.127	-0.197	-0.273	-0.275
20201122-EMRO-LTO	0.051	-0.339	-0.295	-0.263	-0.171	-0.330	-0.198	-0.248
20201211-EMRO-LTO	-0.013	-0.385	-0.192	-0.187	-0.180	-0.379	-0.212	-0.202
20201231-EMRO-LTO	-0.035	-0.404	-0.299	-0.365	-0.176	-0.403	-0.100	-0.186
20210111-EMRO-LTO	-0.052	-0.414	-0.289	-0.167	-0.177	-0.422	-0.265	-0.253
20210121-EMRO-LTO	-0.064	-0.414	-0.252	-0.303	-0.181	-0.453	-0.333	-0.347
20210130-EMRO-LTO	-0.073	-0.412	-0.255	-0.259	-0.184	-0.481	-0.277	-0.298
20210213-EMRO-LTO	-0.087	-0.409	-0.283	-0.283	-0.189	-0.506	-0.234	-0.332
20210220-EMRO-LTO	-0.094	-0.409	-0.278	-0.223	-0.190	-0.509	-0.280	-0.361

**Figure A6.** Before vaccination date comparing LTO. \* p < 0.05; \*\* p < 0.01.

		~	~			-		
		Cases -	Cases -			Deaths -	Deaths -	
Data	~	cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			Global-IV	R				
20200222-Global-IVR	-0.097	-0.118	-0.101	-0.112	-0.097	-0.116	-0.097	-0.098
20200322-Global-IVR	-0.061	0.125	0.047	0.045	-0.096	-0.025	-0.041	-0.039
20200422-Global-IVR	0.094	-0.040	0.112	0.107	0.104	0.056	0.147	0.152
20200522-Global-IVR	0.099	0.127	0.085	0.099	0.149	0.143	0.161	0.188
20200622-Global-IVR	0.096	0.139	0.086	0.079	0.170	0.191	0.134	0.150
20200722-Global-IVR	0.099	0.129	0.106	0.093	0.177	0.183	0.142	0.163
20200822-Global-IVR	0.091	0.157	0.047	0.045	0.177	0.177	0.133	0.127
20200922-Global-IVR	0.067	0.150	0.007	-0.012	0.155	0.143	0.075	0.048
20201022-Global-IVR	0.061	0.110	0.054	0.050	0.163	0.159	0.083	0.093
20201122-Global-IVR	0.060	-0.026	0.061	0.061	0.155	0.104	0.062	0.083
20201211-Global-IVR	0.059	-0.085	0.084	0.090	0.139	0.053	0.081	0.085
20201231-Global-IVR	0.070	-0.071	0.118	0.107	0.138	0.030	0.114	0.056
20210111-Global-IVR	0.078	-0.066	0.135	0.141	0.141	0.018	0.158	0.185
20210121-Global-IVR	0.083	-0.063	0.143	0.148	0.144	0.013	0.176	0.205
20210130-Global-IVR 20210213-Global-IVR	0.087	-0.063 -0.077	0.137	0.125	0.149	0.013	0.188	0.168
		Statistical Statistics		YOU IS A MANY TA				
20210220-Global-IVR	0.090	-0.092	0.102	0.094	0.153	-0.005	0.168	0.170
20200222-EURO-IVR	0.100	0.059	EURO-IV		0.070	0.070		
20200222-EURO-IVR 20200322-EURO-IVR	0.100	0.258	-0.052 0.099	-0.072	0.070	0.070 0.075	-0.005	0.005
20200322-EURO-IVR 20200422-EURO-IVR	0.088	<b>0.438</b> ** 0.041	0.099	0.084	0.205	0.073	0.286	0.003
20200422-EURO-IVR 20200522-EURO-IVR	0.174	0.486**	-0.148	-0.101	0.203	0.237	0.280	0.208
20200522-EURO-IVR 20200622-EURO-IVR	0.020		-0.139	-0.170	0.215	44	-0.056	-0.045
20200022-EURO-IVR	-0.026	0.301 <sup>°</sup> 0.106	-0.194	-0.198	0.200	0.435	-0.204	-0.198
20200822-EURO-IVR	-0.030	0.042	-0.057	-0.008	0.183	0.349*	-0.242	-0.237
20200922-EURO-IVR	-0.004	0.026	0.065	0.123	0.052	0.176	-0.108	-0.130
20201022-EURO-IVR	0.052	0.104	0.120	0.144	0.143	0.231	-0.078	-0.055
20201122-EURO-IVR	0.053	0.086	-0.040	-0.071	0.110	0.151	-0.015	-0.043
20201211-EURO-IVR	0.019	0.041	-0.011	0.010	0.081	0.112	-0.077	-0.078
20201231-EURO-IVR	0.035	0.029	0.130	0.143	0.067	0.069	-0.024	-0.018
20210111-EURO-IVR	0.054	0.047	0.181	0.143	0.069	0.048	0.062	0.096
20210121-EURO-IVR	0.064	0.055	0.141	0.131	0.075	0.050	0.102	0.117
20210130-EURO-IVR	0.075	0.054	0.081	-0.105	0.078	0.051	0.086	-0.092
20210213-EURO-IVR	0.076	0.035	0.051	0.039	0.081	0.040	0.052	0.029
20210220-EURO-IVR	0.074	0.023	0.021	-0.002	0.079	0.026	0.007	0.001
			AFRO-IV	2				
20200222-AFRO-IVR	na	na	na	na	na	na	na	na
20200322-AFRO-IVR	-0.178	-0.475	-0.194	-0.285	-0.431	-0.522	-0.326	
20200422-AFRO-IVR	-0.067	-0.325	0.114	0.145	-0.348	-0.423	-0.234	
20200522-AFRO-IVR	0.192	-0.168	0.204	0.235	-0.123	-0.307	0.166	
20200622-AFRO-IVR	0.205	-0.051	0.199	0.206	0.106	-0.103	0.192	
20200722-AFRO-IVR	0.164	0.030	0.138	0.146	0.121	-0.029	0.116	
20200822-AFRO-IVR	0.152	0.049	0.097	0.097	0.121	0.034	0.109	and a second second
20200922-AFRO-IVR 20201022-AFRO-IVR	0.146	0.050 0.057	0.134 0.148	0.002	-0.155 0.117	-0.280 0.052	0.093	
20201022-AFRO-IVR 20201122-AFRO-IVR	0.140	0.057	0.148	0.130	0.117	0.032	0.113	
20201122-AFRO-IVR 20201211-AFRO-IVR	0.143	0.038	0.037	0.073	0.113	0.044	0.070	
20201211-AFRO-IVR 20201231-AFRO-IVR	0.138	0.037	0.127	0.149	0.110	0.047	0.104	101242 81.269.
			Construction of the second s	and the second second				
20210111-AFRO-IVR	0.139	0.071	0.146	0.130	0.114	0.068	0.124	Children and Child
20210121-AFRO-IVR	0.143	0.071	0.174	0.181	0.117	0.077	0.136	
20210130-AFRO-IVR	0.147	0.072	0.238	0.254	0.119	0.082	0.135	and a set of the
20210213-AFRO-IVR	0.152	0.068	0.342	0.371	0.121	0.084	0.154	
20210220-AFRO-IVR	0.155	0.066	0.430	0.304	0.123	0.085	0.173	0.156

		Cases -	Cases -	_		Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Dutte	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
		population	AMRO-IV	200.0.09		population	inter and a	areaan
20200222-AMRO-IVR	-0.026	-0.026	-0.043	-0.043	-0.359	-0.359	na	na
20200322-AMRO-IVR	-0.028	-0.119	-0.040	-0.022	-0.058	-0.238	-0.061	-0.048
20200422-AMRO-IVR	-0.039	-0.124	-0.028	-0.030	-0.041	-0.172	-0.060	-0.035
20200522-AMRO-IVR	-0.065	-0.270	-0.090	-0.141	-0.058	-0.289	-0.168	-0.091
20200622-AMRO-IVR	-0.105	-0.282	-0.108	-0.149	-0.076	-0.320	-0.082	-0.121
20200722-AMRO-IVR	-0.103	-0.307	-0.059	-0.039	-0.075	-0.327	-0.106	-0.014
20200822-AMRO-IVR	-0.109	-0.318	-0.098	-0.141	-0.077	-0.336	-0.118	-0.125
20200922-AMRO-IVR	-0.115	-0.331	-0.090	-0.127	-0.082	-0.370	-0.096	-0.001
20201022-AMRO-IVR	-0.111	-0.304	-0.036	-0.065	-0.080	-0.377	-0.054	-0.035
20201122-AMRO-IVR	-0.094	-0.313	-0.023	-0.047	-0.065	-0.362	0.016	0.028
20201211-AMRO-IVR	-0.087	-0.262	-0.041	-0.049	-0.020	-0.259	0.026	0.020
20201231-AMRO-IVR	-0.078	-0.229	-0.037	-0.032	-0.015	-0.228	0.041	0.021
20210111-AMRO-IVR	-0.074	-0.221	-0.045	-0.046	-0.010	-0.202	0.038	0.053
20210121-AMRO-IVR	-0.072	-0.224	-0.045	-0.053	-0.006	-0.186	0.054	0.135
20210130-AMRO-IVR	-0.070	-0.229	-0.050	-0.059	0.000	-0.174	0.063	0.052
20210213-AMRO-IVR	-0.071	-0.248 -0.257	-0.089 -0.116	-0.105	0.004	-0.169	0.056	0.054
20210220-AMRO-IVR	-0.072	-0.237	-0.116 WPRO-IV	10.004	0.005	-0.168	0.030	0.020
20200222-WPRO-IVR	-0.370	-0.475	-0.384	-0.430	-0.369	-0.448	-0.369	-0.371
20200222-WPRO-IVR 20200322-WPRO-IVR	-0.370	-0.314	0.144	0.340	-0.309	-0.448	-0.309	-0.195
20200522-WIRO-IVR 20200422-WPRO-IVR	-0.373	0.116	0.006	0.019	-0.383	0.128	-0.433	-0.019
20200522-WPRO-IVR	-0.361	0.059	0.022	0.007	-0.389	0.203	-0.052	-0.125
20200622-WPRO-IVR	-0.349	0.051	-0.061	-0.028	-0.390	0.147	-0.068	-0.101
20200722-WPRO-IVR	-0.302	0.050	-0.003	0.000	-0.386	0.070	-0.016	-0.032
20200822-WPRO-IVR	-0.184	0.048	-0.053	-0.060	-0.345	0.103	0.080	-0.046
20200922-WPRO-IVR	-0.273	0.076	-0.052	-0.115	-0.463	0.282	-0.019	-0.156
20201022-WPRO-IVR	-0.118	0.048	0.021	0.028	-0.236	0.123	-0.026	-0.111
20201122-WPRO-IVR	-0.099	0.063	-0.005	-0.017	-0.213	0.104	-0.048	-0.125
20201211-WPRO-IVR	-0.222	0.027	-0.148	-0.143	-0.348	0.107	-0.190	-0.161
20201231-WPRO-IVR	-0.227	0.028	-0.157	-0.125	-0.358	0.065	-0.287	-0.308
20210111-WPRO-IVR	-0.224	0.034	-0.088	-0.082	-0.367	0.038	-0.252	-0.208
20210121-WPRO-IVR	-0.213	0.046	-0.045	-0.021	-0.362	0.013	-0.215	-0.194
20210130-WPRO-IVR	-0.201	0.060	0.012	0.073	-0.355	-0.001	-0.183	-0.177
20210213-WPRO-IVR	-0.181	0.081	0.062	0.062	-0.341	-0.012	-0.153	-0.130
20210220-WPRO-IVR	-0.176	0.087		0.040	-0.335	-0.014	-0.149	-0.127
			SEARO-IV					
20200222-SEARO-IVR	0.717	0.750	0.751		na	na	na	na
20200322-SEARO-IVR 20200422-SEARO-IVR	0.934	0.858 0.843	0.941	0.860	0.289	0.366		0.173
20200422-SEARO-IVR	-0.361	0.059	0.022		-0.389	0.203	-0.052	
20200622-SEARO-IVR	-0.581	-0.933		-0.559	-0.418	-0.728		-0.425
20200722-SEARO-IVR	-0.507	-0.997**	-0.421	-0.420	-0.414	-0.745		-0.370
20200822-SEARO-IVR	-0.441	-0.918	-0.395	-0.389	-0.401	-0.689	-0.386	-0.387
20200922-SEARO-IVR	-0.412	-0.760		-0.373	-0.391	-0.608	-0.364	
20201022-SEARO-IVR	-0.401	-0.680		-0.376	-0.384	-0.554	-0.359	
20201122-SEARO-IVR	-0.398	-0.660		-0.385	-0.381	-0.526		-0.446
20201211-SEARO-IVR	-0.397	-0.670		-0.369	-0.379	-0.522		-0.287
20201231-SEARO-IVR	-0.395	-0.658		-0.304	-0.376	-0.489		-0.142
20210111-SEARO-IVR	-0.393	-0.642		-0.218	-0.373	-0.457	-0.122	
20210121-SEARO-IVR 20210130-SEARO-IVR	-0.390 -0.387	-0.623 -0.599	-0.10/	-0.109	-0.369 -0.365	-0.414	0.079 0.140	
20210130-SEARO-IVR 20210213-SEARO-IVR	-0.387	-0.599 -0.564	-0.042		-0.365	-0.372	0.140	
20210213-SEARO-IVR 20210220-SEARO-IVR		10000000000						000000000000
ZUZIUZZU-SEARO-IVR	-0.382	-0.551	-0.137	-0.126	-0.358	-0.303	0.148	0.110

Figure A7. Cont.

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly		10.00 M	cumulative total	newly	
Date	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			EMRO-IV	R				
20200222-EMRO-IVR	0.207	0.074	0.285	0.285	0.285	0.285	na	0.285
20200322-EMRO-IVR	0.276	0.315	0.252	0.294	0.279	0.278	0.277	0.274
20200422-EMRO-IVR	0.280	0.442	0.324	0.392	0.250	0.286	0.143	0.136
20200522-EMRO-IVR	0.265	0.589	0.184	0.045	0.182	0.284	-0.145	-0.168
20200622-EMRO-IVR	0.029	0.516	-0.182	-0.223	0.010	0.256	-0.465	-0.400
20200722-EMRO-IVR	0.006	0.484	0.100	0.152	-0.044	0.202	0.067	0.102
20200822-EMRO-IVR	0.028	0.479	0.027	0.001	0.019	0.229	0.215	0.152
20200922-EMRO-IVR	0.022	0.458	0.008	0.038	-0.053	0.011	0.233	0.245
20201022-EMRO-IVR	0.052	0.524	0.208	0.254	0.102	0.336	0.287	0.280
20201122-EMRO-IVR	0.154	0.635	0.299	0.228	0.160	0.484	0.243	0.268
20201211-EMRO-IVR	0.259	0.465	0.261	0.243	0.175	0.405	0.254	0.227
20201231-EMRO-IVR	0.175		0.069	0.084	0.166		-0.140	-0.128
20210111-EMRO-IVR	0.168	0.512	0.028	-0.019	0.158	0.563	-0.251	-0.399
20210121-EMRO-IVR	0.164	0.454	0.029	0.098	0.152	0.565	-0.297	-0.272
20210130-EMRO-IVR	0.163	0.422	0.124	0.150	0.146	0.553	-0.312	-0.371
20210213-EMRO-IVR	0,167	0.396	0.214	0.187	0.137	0.500	-0.362	-0.328
20210220-EMRO-IVR	0.169	0.387	0.200	0.122	0.133	0.484	-0.312	-0.239

**Figure A7.** Before vaccination date comparing IVR. \* p < 0.05; \*\* p < 0.01.

Data	CC	CC-PM	NC-7A	NC	CD	CD-PM	ND-7A	ND	Data	CC	CC-PM	NC-7A	NC	CD	CD-PM	ND-7A	ND
Date	Section 1		- CALIFORNIA CONTRACTOR	0000	And Price			- Charles	Date	a dana	- HE GALLARY MARK			Conserve A			
DODDDDD CILL I DDI		Gl	obal-PDI	_				_	00000000 01-1-1 IDV		GIO	bal-IDV	<u>v</u>				$\dashv$
20200222-Global-PDI 20200322-Global-PDI	-		_						20200222-Global-IDV 20200322-Global-IDV	+	+	+	+	-	+	+	1
20200322-Global-PDI				-		-		-	20200422-Global-IDV	+		+	+	+	+	+	+
20200522-Global-PDI					-	-			20200522-Global-IDV	+	+	+		+	+	+	+
20200622-Global-PDI									20200622-Global-IDV	+				+	+		
20200722-Global-PDI									20200722-Global-IDV	+		+	+	+	+		
20200822-Global-PDI 20200922-Global-PDI	-				_				20200822-Global-IDV	+				+			
20200922-Global-PDI 20201022-Global-PDI					-				20200922-Global-IDV 20201022-Global-IDV	++		+	+	+		+	+
20201122-Global-PDI									20201122-Global-IDV	+	+	+	+	+		+	+
20201211-Global-PDI									20201211-Global-IDV	+	+	+	+	+	+	+	+
20201231-Global-PDI								-	20201231-Global-IDV	+	+	+	+	+	+	+	+
20210111-Global-PDI					_				20210111-Global-IDV	+	+	+	+	+	+	+	+
20210121-Global-PDI 20210130-Global-PDI	<u> </u>	-			-				20210121-Global-IDV 20210130-Global-IDV	+	+++	+	+++	+++	+	+++	+
20210130-Global-PDI				_					20210130-Global-IDV	+	+	+	Ŧ	Ŧ	+	+	+
20210220-Global-PDI		-							20210220-Global-IDV	+	+	+	÷	+	+	+	÷
		EU	<b>RO-PDI</b>	2							EUI	RO-ID	V				
20200222-EURO-PDI		-							20200222-EURO-IDV	+	+						
20200322-EURO-PDI		1							20200322-EURO-IDV	+	÷	+	+		+		
20200422-EURO-PDI									20200422-EURO-IDV	+				+	+	+	+
20200522-EURO-PDI 20200622-EURO-PDI	-	-		_	-		-	$\vdash$	20200522-EURO-IDV 20200622-EURO-IDV		+			++++	+++	+	+
20200622-EURO-PDI 20200722-EURO-PDI							+		20200622-EURO-IDV 20200722-EURO-IDV					+	+		$\vdash$
20200822-EURO-PDI							+	+	20200822-EURO-IDV					+	+		
20200922-EURO-PDI									20200922-EURO-IDV					+			
20201022-EURO-PDI									20201022-EURO-IDV			+	+	+			
20201122-EURO-PDI	-								20201122-EURO-IDV					+		+	
20201211-EURO-PDI 20201231-EURO-PDI				-	-				20201211-EURO-IDV 20201231-EURO-IDV			+	+	++			+
20210111-EURO-PDI	-			-	-				20210111-EURO-IDV	+		+	+	+		+	+
20210121-EURO-PDI									20210121-EURO-IDV	+		+	+	+		+	+
20210130-EURO-PDI									20210130-EURO-IDV					+		+	
20210213-EURO-PDI									20210213-EURO-IDV			+	+	+		+	+
20210213-EURO-PDI 20210220-EURO-PDI								E	20210213-EURO-IDV 20210220-EURO-IDV		AT	+	+	++		+++++	+++
20210220-EURO-PDI			RO-PDI			1			20210220-EURO-IDV		AFI		+			++	
20210220-EURO-PDI 20200222-AFRO-PDI	b	AI	RO-PDI	b	b	Ъ	b	b	20210220-EURO-IDV 20200222-AFRO-IDV		AFI	+ RO-IDV	+			+	
20210220-EURO-PDI 20200222-AFRO-PDI 20200322-AFRO-PDI	b		1000	b	b	b	b	b	20210220-EURO-IDV 20200222-AFRO-IDV 20200322-AFRO-IDV	++		+ RO-ID\ +	+			+	
20210220-EURO-PDI 20200222-AFRO-PDI	b		1000	b 	b	Ъ	b	b 	20210220-EURO-IDV 20200222-AFRO-IDV	+++	AFI +	+ RO-IDV	+			+ +	
20210220-EURO-PDI 20200222-AFRO-PDI 20200322-AFRO-PDI 20200422-AFRO-PDI 20200522-AFRO-PDI 20200522-AFRO-PDI			1000		b	b		b 	20210220-BURO-IDV 202000222-AFRO-IDV 20200322-AFRO-IDV 20200422-AFRO-IDV 20200522-AFRO-IDV 20200522-AFRO-IDV	+++	+	+ RO-IDV + + +	+++++++++++++++++++++++++++++++++++++++	++++	+	+++	++++
20210220-EURO-PDI 20200222-AFRO-PDI 20200322-AFRO-PDI 20200422-AFRO-PDI 20200422-AFRO-PDI 20200622-AFRO-PDI 20200622-AFRO-PDI		-	-	-	b -	b 	-	b 	20210220-EURO-IDV 20200222-AFRO-IDV 20200322-AFRO-IDV 20200422-AFRO-IDV 20200522-AFRO-IDV 20200522-AFRO-IDV 20200722-AFRO-IDV	++++	++++++	+ RO-IDV + + + + +	+ + + +	++++	+	+ +++	+
20210220-EURO-PDI 20200222-AFRO-PDI 20200322-AFRO-PDI 20200422-AFRO-PDI 20200522-AFRO-PDI 20200622-AFRO-PDI 20200722-AFRO-PDI 20200822-AFRO-PDI	-	b 	- - -	-	-		- -	b  	20210220-EURO-IDV 20200222-AFRO-IDV 20200322-AFRO-IDV 20200422-AFRO-IDV 20200522-AFRO-IDV 20200622-AFRO-IDV 20200722-AFRO-IDV 20200822-AFRO-IDV	++++++	+++++	+ + + + + + + +	+++++++++++++++++++++++++++++++++++++++	++++		+ + + +	++++
20210220-EURO-PDI 20200222-AFRO-PDI 20200322-AFRO-PDI 20200422-AFRO-PDI 20200522-AFRO-PDI 20200622-AFRO-PDI 20200722-AFRO-PDI 20200822-AFRO-PDI 20200922-AFRO-PDI	-	b 	- - - -		-	-	-	b 	20210220-EURO-IDV 20200222-AFRO-IDV 20200322-AFRO-IDV 20200422-AFRO-IDV 20200522-AFRO-IDV 20200622-AFRO-IDV 20200722-AFRO-IDV 20200822-AFRO-IDV 20200922-AFRO-IDV	+++++++	+ + + +	+ + + + + + + + +	+++++++++++++++++++++++++++++++++++++++	+++++	++	+ + + + +	++++
20210220-EURO-PDI 20200222-AFRO-PDI 20200322-AFRO-PDI 20200422-AFRO-PDI 20200522-AFRO-PDI 20200622-AFRO-PDI 20200722-AFRO-PDI 20200822-AFRO-PDI	-	b 	- - -	-	1 1		-	b 	20210220-EURO-IDV 20200222-AFRO-IDV 20200322-AFRO-IDV 20200422-AFRO-IDV 20200522-AFRO-IDV 20200622-AFRO-IDV 20200722-AFRO-IDV 20200822-AFRO-IDV	++++++	+++++	+ + + + + + + +	+++++++++++++++++++++++++++++++++++++++	++++	+	+ + + +	++++
20210220-EURO-PDI 20200322-AFRO-PDI 20200322-AFRO-PDI 20200422-AFRO-PDI 20200422-AFRO-PDI 20200622-AFRO-PDI 20200722-AFRO-PDI 20200922-AFRO-PDI 20200922-AFRO-PDI 20201022-AFRO-PDI 20201122-AFRO-PDI 20201211-AFRO-PDI		b 	- - - -	1 1 1 1	1 1 1	-	-		20210220-EURO-IDV 202000222-AFRO-IDV 20200322-AFRO-IDV 20200422-AFRO-IDV 20200522-AFRO-IDV 20200522-AFRO-IDV 20200722-AFRO-IDV 20200922-AFRO-IDV 20200122-AFRO-IDV 20201122-AFRO-IDV 20201122-AFRO-IDV 20201121-AFRO-IDV	+++++++++++++++++++++++++++++++++++++++	+ + + + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + +		+++++++++++++++++++++++++++++++++++++++	+++++	+ +++++++++++++++++++++++++++++++++++++	+++++
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**Figure A8.** Before vaccination date comparing positive (+) or negative (-) significance mark with PDI and IDV.

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Figure A9. Cont.

SEARO-MAS         +         +         20200422-WPRO-UAI         +         +           0200022-WPRO-UAS         -         +         +         2020022-WPRO-UAI         -         -           0200022-WPRO-UAS         -         -         2020022-WPRO-UAI         -         -         -           0200022-WPRO-UAS         -         -         2020022-WPRO-UAI         -         -         -         -         -         -         2020022-WPRO-UAI         -         -         -         -         -         -         -         2020022-WPRO-UAI         -         -         -         -         -         -         20200122-WPRO-UAI         -         -         -         -         -         -         2020122-WPRO-UAI         -         +         -         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         -         +         2020022-WPRO-WAI         -         -         -         2020022-WPRO-WAI         -         -         -         20200222-WPRO-WAI         -         - <t< th=""><th>Data</th><th>CC</th><th>CC-PM</th><th>NC-7A</th><th>NC</th><th>CD</th><th>CD-PM</th><th>ND-7A</th><th>ND</th><th>Data</th><th>CC</th><th>CC-PM</th><th>NC-7A</th><th>NC</th><th>CD</th><th>CD-PM</th><th>ND-7A</th><th>ND</th></t<>	Data	CC	CC-PM	NC-7A	NC	CD	CD-PM	ND-7A	ND	Data	CC	CC-PM	NC-7A	NC	CD	CD-PM	ND-7A	ND
0200022_WPRO-MAS         +		·	WPF	O-MA	S	·						WP	RO-UA	I				
0200022_WPRO-MAS         +	20200222-WPRO-MAS									20200222-WPRO-UAI					1			F
SEARO-MAS         +         +         20200422-WPRO-UAI         +         +           0200022-WPRO-UAS         -         +         +         2020022-WPRO-UAI         -         -           0200022-WPRO-UAS         -         -         2020022-WPRO-UAI         -         -         -           0200022-WPRO-UAS         -         -         2020022-WPRO-UAI         -         -         -         -         -         -         2020022-WPRO-UAI         -         -         -         -         -         -         -         2020022-WPRO-UAI         -         -         -         -         -         -         20200122-WPRO-UAI         -         -         -         -         -         -         2020122-WPRO-UAI         -         +         -         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         +         +         2020121-WPRO-UAI         -         -         +         2020022-WPRO-WAI         -         -         -         2020022-WPRO-WAI         -         -         -         20200222-WPRO-WAI         -         - <t< td=""><td>20200322-WPRO-MAS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	20200322-WPRO-MAS																	
9200022-WPRCUAKS         +         +         2020022-WPRCUAK           9200022-WPRCUAKS         - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>+</td>								+	+									+
20200722-WFRO-UAR	20200522-WPRO-MAS							+	+	20200522-WPRO-UAI								
2020022-WPRO-MAS           2020022-WPRO-UAI             2020022-WPRO-MAS          2020022-WPRO-UAI             2020122-WPRO-MAS         +         +         2020122-WPRO-UAI             2020122-WPRO-MAS         +         +         +         2020121-WPRO-UAI          +           2020122-WPRO-MAS         +         2021021-WPRO-UAI          -         -         2020022-SEARO-UAI          -         2020022-SEARO-UAI         -         -         2020022-SEARO-UAI	20200622-WPRO-MAS									20200622-WPRO-UAI								
2020022-WR0-MAS           2020022-WR0-VIAI             20201022-WR0-MAS         +         +         2020122-WR0-VIAI             20201122-WR0-MAS         +         +         +         2020121-WR0-VIAI          +           20201121-WR0-MAS         +         2021011-WR0-VIAI         +         +         2021012-WR0-VIAI         +         +         2021012-WR0-VIAI         +         +         2021022-SEARO-VIAI         +         2021022-SEARO-VIAI         +         +         2020	20200722-WPRO-MAS									20200722-WPRO-UAI								
20201022-WPRO-MAS         +         +         20201022-WPRO-VIAI         -         +           20201022-WPRO-MAS         +         +         +         2020121-WPRO-VIAI         -         +           20201021-WPRO-MAS         +         +         +         2020121-WPRO-VIAI         +         +           20201021-WPRO-MAS         +         2020022-SEARO-UAI         +         +         +         2020022-SEARO-UAI         +         +         2020022-SEARO-UAI         +         +         2020022-SEARO-UAI         +         +         202	20200822-WPRO-MAS						<u> </u>			20200822-WPRO-UAI					() 			
20201122-WFRO-MAS       +       1	20200922-WPRO-MAS									20200922-WPRO-UAI								
2201211-WR0-MAS       +	20201022-WPRO-MAS									20201022-WPRO-UAI								
20201231-WFRO-MAS         +	20201122-WPRO-MAS			+	+					20201122-WPRO-UAI								
2021011-WERO-MAS       +       +       +       +       2021011-WERO-MAI       +       +       +       +       2021012-WERO-MAI       -       +       +       +       2021012-WERO-MAI       -       +       +       2021012-WERO-MAI       -       -       -       2021012-WERO-MAI       -       -       -       -       2021022-WERO-MAI       -       -       -       -       -       2021022-WERO-MAI       -       -       -       -       2021022-WERO-MAI       -       -       -       -       2021022-WERO-MAI       -       -       -       -       -       2020022-SERAO-MAI       -       -       -       2020022-SERAO-MAI       -       -       20200022-SERAO-MAI       -       -	20201211-WPRO-MAS			+				+	+	20201211-WPRO-UAI								+
2020101_WERO-MAS         +         +         +         +         20201012_WERO-MAS         Image: Control of the control of	20201231-WPRO-MAS			+	4			+		20201231-WPRO-UAI			+	+			+	+
Participant         +         +         +         +         +         +         +         +         +         +         +         2021013-WFRO-MAI         Image: Control of the cont	20210111-WPRO-MAS			+	+			+	+	20210111-WPRO-UAI							+	+
Part of the second se	20210121-WPRO-MAS			+	+					20210121-WPRO-UAI								
SEARO-MAS         SEARO-MAS           SEARO-MAS         SEARO-UAI           20200222-SEARO- 20200222-SEARO-UAI         20200222-SEARO-UAI           20200222-SEARO- 20200222-SEARO-UAI         20200222-SEARO-UAI           20200222-SEARO-UAI         20200222-SEARO-UAI           20200222-SEARO-UAI         20200222-SEARO-UAI           20200222-SEARO-UAI         +           20200222-SEARO-UAI         +           20200222-SEARO-UAI         +           2020022-SEARO-UAI         +           2020022-SEARO-UAI         +           2020022-SEARO-UAI         +           2020022-SEARO-UAI         -           2020022-SEARO-MAS         +           2020022-SEARO-MAS         +           2020122-SEARO-MAS         +           2020122-SEARO-MAS         -           2020122-SEARO-MAS         -           2020122-SEARO-MAS         -           2020122-SEARO-MAS         -           2020122-SEARO-MAS         -           2020121-SEARO-MAS         -           2020122-SEARO-MAS         -           2020121-SEARO-MAS         -           2020121-SEARO-MAS         -           2020121-SEARO-MAS         -           2020121-SEARO-MAS<	20210130-WPRO-MAS							+	+	20210130-WPRO-UAI								
SEARO-MAS         SEARO-UAI           2020022-SERAD-         2020022-SERAD-UAI           2020022-SERAD-         2020022-SERAD-UAI           2020022-SERAD-         +           2020022-SERAD-UAI         +           20200122-SERAD-UAI         -           20201122-SERAD-UAI         -           20201122-SERAD-UAI         -           20201122-SERAD-UAI         -           20201122-SERAD-UAI         -           20201122-SERAD-UAI         -           20201121-SERAD-UAI         -           20201121-SERAD-UAI         -           20201121-SERAD-UAI         -           20210121-SERAD-UAI         -           20210121-SERAD-UAI         -           20210121-SERAD-UAI         -           2021021-SERAD-UAI	20210213-WPRO-MAS							+	+									
20200222-SEARO-         20200222-SEARO-UAI	20210220-WPRO-MAS					+		+		20210220-WPRO-UAI								
20200322-SEARO-UAI         20200322-SEARO-UAI         +         1         20200422-SEARO-UAI         +         1         20200422-SEARO-UAI         +         1         20200422-SEARO-UAI         +         1			SEAI	RO-MA	S							SEA	RO-UA	I				
20200422-SEARO-          20200422-SEARO-UAI         +             20200522-SEARO-UAI               20200522-SEARO-UAI	20200222-SEARO-									20200222-SEARO-UAI								
20200422-SEARO-          20200422-SEARO-UAI         +             20200522-SEARO-UAI               20200522-SEARO-UAI	20200322-SEARO-																	
20200622-SEARO-         +         22000722-SEARO-UAI             20200722-SEARO-MAS         +         22020722-SEARO-UAI             20200722-SEARO-MAS         +         22020722-SEARO-UAI             20200722-SEARO-MAS         +         22020722-SEARO-UAI             2020022-SEARO-MAS         +         22020122-SEARO-UAI             2020122-SEARO-MAS         +         22020122-SEARO-UAI             20201122-SEARO-MAS         +         20201121-SEARO-UAI             20201121-SEARO-MAS          2020121-SEARO-UAI             2020121-SEARO-MAS          2020121-SEARO-UAI             2020121-SEARO-MAS          2020121-SEARO-UAI             20210121-SEARO-MAS          20201013-SEARO-UAI             20210121-SEARO-MAS          20210121-SEARO-UAI             20210121-SEARO-MAS          20210222-SEARO-UAI             20210122-SEARO-MAS          20200222-SEARO-UAI	20200422-SEARO-											+						
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20201022-SEARO-MAS         +         20201022-SEARO-UAI            20201122-SEARO-MAS          20201122-SEARO-UAI             20201123-SEARO-MAS          20201123-SEARO-UAI             2020121-SEARO-MAS          2020121-SEARO-UAI             2020121-SEARO-MAS          2020121-SEARO-UAI             2020101-SEARO-MAS          2020121-SEARO-UAI             2020101-SEARO-MAS          20201012-SEARO-UAI              2021012-SEARO-MAS          2021012-SEARO-UAI               2021012-SEARO-MAS          2021021-SEARO-UAI	20200922-SEARO-MAS						+			20200922-SEARO-UAI								
20201211-SEARO-MAS         20201211-SEARO-UAI         1           20201231-SEARO-MAS         20201231-SEARO-UAI         1           2020111-SEARO-MAS         2020121-SEARO-UAI         1           20201011-SEARO-MAS         20201011-SEARO-UAI         1           20201012-SEARO-MAS         20201012-SEARO-UAI         1           20201012-SEARO-MAS         20201021-SEARO-UAI         1           20201021-SEARO-MAS         20201021-SEARO-UAI         1           20201021-SEARO-MAS         20201021-SEARO-UAI         1           20201022-SEARO-MAS         20201021-SEARO-UAI         1           20200222-EMRO-MAS         20200222-EMRO-UAI         1           20200222-EMRO-MAS         20200222-EMRO-UAI         1           20200222-EMRO-MAS         20200222-EMRO-UAI         1           20200222-EMRO-MAS         20200222-EMRO-UAI         1           20200222-EMRO-MAS         20200022-EMRO-UAI         1           20200222-EMRO-MAS         20200022-EMRO-UAI         1           2020022-EMRO-MAS         20200022-EMRO-UAI         1           20200022-EMRO-MAS         1         20200022-EMRO-UAI         1           20200022-EMRO-MAS         1         20200022-EMRO-UAI         1           20201022-EMRO-MAS	20201022-SEARO-MAS																	
20201231-SEARO-MAS         20201231-SEARO-UAI         20201231-SEARO-UAI           20210111-SEARO-MAS         20210121-SEARO-UAI         20210121-SEARO-UAI           20210121-SEARO-MAS         20210121-SEARO-UAI         20210221-SEARO-UAI           20210121-SEARO-MAS         20210121-SEARO-UAI         20210220-SEARO-MAS           20210213-SEARO-MAS         20210213-SEARO-UAI         20210220-SEARO-MAS           20210220-SEARO-MAS         20210220-SEARO-UAI         20210220-SEARO-UAI           20210220-SEARO-MAS         20200222-EMRO-UAI         20210220-SEARO-UAI           20200222-EMRO-MAS         20200222-EMRO-UAI         20200222-EMRO-UAI           20200222-EMRO-MAS         20200022-EMRO-UAI         20200222-EMRO-UAI           20200222-EMRO-MAS         20200022-EMRO-UAI         2020022-EMRO-UAI           20200022-EMRO-MAS         20200022-EMRO-UAI         2020022-EMRO-UAI           20200022-EMRO-MAS         20200022-EMRO-UAI         2020022-EMRO-UAI           20200022-EMRO-MAS         20200022-EMRO-UAI         2020022-EMRO-UAI           20200022-EMRO-MAS         20200022-EMRO-UAI         2020022-EMRO-UAI           20201022-EMRO-MAS         20201022-EMRO-UAI         2020122-EMRO-UAI           20201022-EMRO-MAS         20201022-EMRO-UAI         2020122-EMRO-UAI           20201012-EMRO-MAS	20201122-SEARO-									20201122-SEARO-UAI								
20210111-SEARO-MAS         20210111-SEARO-UAI         20210120           20210121-SEARO-MAS         20210121-SEARO-UAI         20210120           20210130-SEARO-MAS         20210130-SEARO-UAI         20210213-SEARO-UAI           20210212-SEARO-MAS         20210213-SEARO-UAI         20210213-SEARO-UAI           20210220-SEARO-MAS         20210213-SEARO-UAI         20210220-SEARO-UAI           EMRO-MAS           20200222-EMRO-UAI           20200222-EMRO-UAI           20200222-EMRO-UAI           20200222-EMRO-UAI           20200222-EMRO-UAI           20200222-EMRO-UAI           20200222-EMRO-UAI           20200222-EMRO-UAI           2020022-EMRO-UAI           20201022-EMRO-UAI <td>20201211-SEARO-MAS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20201211-SEARO-UAI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	20201211-SEARO-MAS									20201211-SEARO-UAI								
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20200622-EMRO-MAS        20200622-EMRO-UAI  <	20200522-EMRO-MAS																	
20200722-EMRO-MAS        20200722-EMRO-UAI  <	20200622-EMRO-MAS																	
20200822-EMRO-MAS         +         20200822-EMRO-UAI	20200722-EMRO-MAS																	
20200922-EMRO-MAS       20200922-EMRO-UAI   <	20200822-EMRO-MAS				+													
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20201122-EMRO-MAS         20201122-EMRO-UAI	20201022-EMRO-MAS																	
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20201231-EMRO-MAS         20201231-EMRO-UAI	20201211-EMRO-MAS																	
20210111-EMRO-MAS       20210111-EMRO-UAI   <	20201231-EMRO-MAS																	
20210121-EMRO-MAS       20210121-EMRO-UAI   <	20210111-EMRO-MAS																	$\square$
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20210213-EMRO-MAS 20210213-EMRO-UAI 20210213-COMPANY	20210130-EMRO-MAS																	
	20210213-EMRO-MAS	$\vdash$																$\square$
20210220-EMRO-MANIE	20210220-EMRO-MAS									20210210-EMRO-UAI								$\square$

**Figure A9.** Before vaccination date comparing positive (+) or negative (-) significance mark with MAS and UAI.

Data	CC	CC-PM	NC 7A	NC	CD	CD-PM	ND-7A	ND	Data	cc	CC PM	NC-7A	NC	CD	CD-PM	NID 74	NID
Date	cc	Second Constants		10000	CD	CD-IW	NUHA	IND	Date	cc	CONTRACTOR ADDRESS	Contract of Contra	1.000	CD	CD-r IVI	ND-IA	IND
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20200422-Global-LTO									20200422-Global-IVR								
20200522-Global-LTO									20200522-Global-IVR								
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20200722-Global-LTO									20200722-Global-IVR 20200822-Global-IVR								
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20201231-Global-LTO		+							20201231-Global-IVR								
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20210220-EURO-LITO		AFI	RO-LT	0					20210220-EURO-IVR		AFI	RO-IVI	2				
		AFI	RO-LTO	0					the second se		AFI	RO-IVI	2				
20210220-EURO-LTO 20200222-AFRO-LTO 20200322-AFRO-LTO 20200422-AFRO-LTO		AFI	RO-LTO	0					20210220-EURO-IVR 20200222-AFRO-IVR 20200322-AFRO-IVR 20200422-AFRO-IVR		AFI	RO-IVI	2				
20210220-EURO-LTO 20200222-AFRO-LTO 20200322-AFRO-LTO 20200422-AFRO-LTO 20200522-AFRO-LTO		AFI	RO-LT	0					20210220-EURO-IVR 20200222-AFRO-IVR 20200322-AFRO-IVR 20200422-AFRO-IVR 20200522-AFRO-IVR		AFI	RO-IVI	2				
20210220-EURO-LTO 20200222-AFRO-LTO 20200322-AFRO-LTO 20200422-AFRO-LTO		AFI	RO-LT	0					20210220-EURO-IVR 20200222-AFRO-IVR 20200322-AFRO-IVR 20200422-AFRO-IVR		AFI	RO-IVI	2				
20210220-EURO-LTO 20200222-AFRO-LTO 20200322-AFRO-LTO 20200422-AFRO-LTO 20200522-AFRO-LTO 20200622-AFRO-LTO 20200722-AFRO-LTO 20200822-AFRO-LTO		AFI	RO-LTO	0					20210220-EURO-IVR 202000222-AFRO-IVR 20200322-AFRO-IVR 20200422-AFRO-IVR 20200522-AFRO-IVR 20200622-AFRO-IVR 20200722-AFRO-IVR 20200822-AFRO-IVR		AFI	RO-IVI	2				
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Figure A10. Cont.

Data	CC	CC-PM	NC-7A	NC	CD	CD-PM	ND-7A	ND	Data	CC	CC-PM	NC-7A	NC	CD	CD-PM	ND-7A	ND
Date		WDI	RO-LT	0					Date		XX/D	RO-IV	D	- Dan Breed			
	_	WFF	CO-LI	0	_					_	WE			_		<u> </u>	$\dashv$
20200222-WPRO-LTO	$\vdash$		-	_				-	20200222-WPRO-IVR							<u> </u>	+
20200322-WPRO-LTO				-			o	_	20200322-WPRO-IVR								-
20200422-WPRO-LTO	$\vdash$							_	20200422-WPRO-IVR					-			+
20200522-WPRO-LTO				-				-	20200522-WPRO-IVR				-				-
20200622-WPRO-LTO								_	20200622-WPRO-IVR								$\vdash$
20200722-WPRO-LTO	$\vdash$			-				-	20200722-WPRO-IVR				-				-
20200822-WPRO-LTO			-	-					20200822-WPRO-IVR								$\vdash$
20200922-WPRO-LTO 20201022-WPRO-LTO								_	20200922-WPRO-IVR 20201022-WPRO-IVR								
20201022-WPRO-L10 20201122-WPRO-LTO	$\vdash$					-		-	20201022-WPRO-IVR								+
20201122-WPRO-LTO	$\vdash$							-	20201122-WPRO-IVR				-				
20201231-WPRO-LTO	$\vdash$							_	20201231-WPRO-IVR								-
20201231-WPRO-LTO	$\vdash$			_					20201231-WPRO-IVR								$\vdash$
20210111-WPRO-L10 20210121-WPRO-LTO	$\vdash$								20210111-WPRO-IVR							<u> </u>	$\vdash$
20210121-WPRO-L10 20210130-WPRO-LTO	$\vdash$			-				-	20210121-WPRO-IVR				-				$\vdash$
20210130-WPRO-LTO 20210213-WPRO-LTO			-	-					20210130-WPRO-IVR								$\vdash$
20210213-WPRO-LTO	$\vdash$						-		20210213-WPRO-IVR			-					
		SFAT	RO-LT	0				-			SEA	RO-IV	R				-
20200222 82400720	-	GLA	NO-LI	0					20200222 87450 7775		JUA	NO-IV	14			r	┉
20200222-SEARO-LTO 20200322-SEARO-LTO								-	20200222-SEARO-IVR 20200322-SEARO-IVR				-				$\vdash$
20200322-SEARO-LTO 20200422-SEARO-LTO	-			-					20200322-SEARO-IVR 20200422-SEARO-IVR								$\vdash$
20200422-SEARO-LTO 20200522-SEARO-LTO								-									$\vdash$
20200522-SEARO-LTO 20200622-SEARO-LTO	-			-					20200522-SEARO-IVR 20200622-SEARO-IVR				-				-
20200022-SEARO-LTO 20200722-SEARO-LTO	-							-	20200022-SEARO-IVR 20200722-SEARO-IVR								$\vdash$
20200722-SEARO-LTO								-	20200722-SEARO-IVR		-						$\vdash$
20200922-SEARO-LTO	2						-	-	20200922-SEARO-IVR			-				-	$\vdash$
20201022-SEARO-LTO								-	20201022-SEARO-IVR			-					$\vdash$
20201122-SEARO-LTO									20201122-SEARO-IVR								
20201211-SEARO-LTO									20201211-SEARO-IVR								$\square$
20201231-SEARO-LTO	-								20201231-SEARO-IVR			-					
20210111-SEARO-LTO	-			-					20210111-SEARO-IVR								
20210121-SEARO-LTO				-					20210121-SEARO-IVR								
20210130-SEARO-LTO	8								20210130-SEARO-IVR			-					$\square$
20210213-SEARO-LTO						+			20210213-SEARO-IVR								
20210220-SEARO-LTO	(					+			20210220-SEARO-IVR								
		EMF	RO-LT	0							EM	RO-IV	R			C-1	
20200222-EMRO-LTO									20200222-EMRO-IVR				ŕ			<u> </u>	
20200322-EMRO-LTO	$\square$								20200322-EMRO-IVR								$\square$
20200422-EMRO-LTO									20200422-EMRO-IVR								
20200522-EMRO-LTO									20200522-EMRO-IVR							1	
20200622-EMRO-LTO	$\square$		+	+					20200622-EMRO-IVR								
20200722-EMRO-LTO				-					20200722-EMRO-IVR								
20200822-EMRO-LTO	$\square$								20200822-EMRO-IVR								
20200922-EMRO-LTO									20200922-EMRO-IVR								
20201022-EMRO-LTO									20201022-EMRO-IVR								
20201122-EMRO-LTO									20201122-EMRO-IVR								
20201211-EMRO-LTO									20201211-EMRO-IVR								
20201231-EMRO-LTO									20201231-EMRO-IVR							1	
20210111-EMRO-LTO									20210111-EMRO-IVR								
20210121-EMRO-LTO									20210121-EMRO-IVR								
20210130-EMRO-LTO									20210130-EMRO-IVR								
20210213-EMRO-LTO									20210213-EMRO-IVR								
20210220-EMRO-LTO									20210220-EMRO-IVR								

**Figure A10.** Before vaccination date comparing positive (+) or negative (-) significance mark with LTO and IVR.

		Cases -	unequality II discontraction	THE COST AND AND AND A MER.		Deaths -	and an and a series of the second	n 🗕 utson oo sineksik.
Data		cumulative	Cases -			cumulative	Deaths -	
		total per 1	newly			total per 1	newly	
Region	Cumulative	million	reported in	New	Cumulative		reported in	New
Region	cases	population	last 7 days	cases	deaths	population	last 7 days	deaths
	Cases	population	Global Regi		_ucauis	population	last / days	dealls
20200222-Global Mean	660.761	0.818	11.242	9.103	21.000	0.028	0.955	1.786
		91.318						
20200322-Global Mean	2827.222	171 DESCRIPTION	212.316	297.994	118.556	1.945	10.212	15.684
20200422-Global Mean	21295.436	841.996	696.220	631.974	1619.325	42.799	57.122	54.120
20200522-Global Mean	43027.129	1176.377	751.188	889.629	2982.207	59.593	41.108	43.886
20200622-Global Mean	74992.410	2023.292	1259.924	1275.446	4304.188	85.459	43.591	42.307
20200722-Global Mean	124871.427	3047.613	1992.191	1737.266	5680.197	110.895	48.927	47.417
20200822-Global Mean	194192.769	4347.961	2134.148	2370.663	7341.171	141.182	50.304	53.052
20200922-Global Mean	269944.069	5835.115	2469.526	2108.802	8157.586	242.478	44.938	37.336
20201022-Global Mean	354881.556	8474.158	3398.764	4068.419	10226.009	205.608	47.987	71.350
20201122-Global Mean	498276.615	13888.903	5087.444	5361.098	12397.453	285.031	84.287	85.417
20201211-Global Mean	587032.598	17343.264	36379.017	5539.646	13428.393	331.883	642.243	102.400
20201231-Global Mean	679665.137	20365.857	32930.325	4766.945	15073.085	394.159	612.783	101.661
20210111-Global Mean	747850.547	22484.652	42313.427	5953.869	16284.026	432.062	763.609	104.800
20210121-Global Mean	805143.692	24309.998	37794.085	5163.504	17461.667	468.149	805.661	125.400
20210131-Global Mean	805143.692	24309.998	37794.085	5163.504	17461.667	468.149	805.661	125.400
20210213-Global Mean	907104.316	27515.573	23797.492	3540.034	20025.231	539.540	689,906	107.915
20210219 Global Mean	929748.812	28442.315	20874.797	3203.821	20625.251	559.380	598.389	90.803
20210220 Greodi Widdii	5257 10.012	20112.010	EURO Regi		20001.555	007.200	570.207	90.005
20200222-EURO Mean	1.511	0.039	0.203	0.311	0.022	0.000	0.000	0.000
20200222-EURO Mean	3828.556	206.588	382.495	542.667	181.200	4.321	20.578	34.556
	ACCURACE ACCURACE ACCURACE	1816.730	783.079	699.689	2689.733	99.133	2000/02/02/02/02/02/02	71.711
1. Lan serve a statistic and the statistic statistic server in the statistic server.	27178.911		A DESCRIPTION OF A DESC			2264800 G MM. 2021	78.905	24.0.3234.0.000.000
20200522-EURO Mean	43762.386	1766.399	436.469	423.023	3790.750	114.748	25.717	21.432
20200622-EURO Mean	55865.578	2402.415	400.140	379.422	4262.000	142.134	10.695	6.956
20200722-EURO Mean	68643.844	3267.697	437.908	458.356	4532.311	158.633	8.343	8.756
20200822-EURO Mean	90296.244	4423.963	662.467	888.178	4796.311	177.231	8.387	8.822
20200922-EURO Mean	126866.244	6242.101	1330.860	1372.333	2745.178	152.699	14.549	14.378
20201022-EURO Mean	208450.956	10767.149	3875.174	5561.844	5836.778	239.058	34.711	42.267
20201122-EURO Mean	391730.244	22302.259	5695.314	5678.867	8414.022	396.975	108.829	99.289
20201211-EURO Mean	476636.089	29216.710	37010.844	5857.333	10590.156	523.634	762.533	121.222
20201231-EURO Mean	570481.289	35092.199	34012.378	5563.089	12593.889	654.983	705.089	146.044
20210111-EURO Mean	633732.311	38910.596	39880.156	5084.556	13840.822	727.932	803.622	91.822
20210121-EURO Mean	692005.733	42144.423	34569.667	5109.178	15235.867	796.518	862.778	144.200
20210131-EURO Mean	692005.733	42144.423	34569.667	5109.178	15235.867	796.518	862.778	144.200
20210213-EURO Mean	799848.644	47745.471	22820.244	3255.689	17794.289	921.356	669.533	89.689
20210220-EURO Mean	824967.178	49469.653	20698.444	3204.000	18483.644	958.449	547.733	82.089
			AFRO Regi	ion				
20200222-AFRO Mean	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20200322-AFRO Mean		1.189	5.098	5.875	1.125	0.030	0.116	0.125
20200422-AFRO Mean	620.625	16.806	30.911	26.813	36.563	0.832	1.223	0.688
20200522-AFRO Mean	2982.625	116.794	109.178	130.313	87.688	4.307	2.464	3.250
20200622-AFRO Mean		318.874	348.786	353.125	348.875	9.439		16.933
20200022-AFRO Mean	32580.875	851.525	958.553	693.000		16.976		15.375
20200722-AFRO Mean	53215.625	1365.071	431.188	425.563	1261.750	28.552	15.321	16.813
20200022-AFRO Mean		1626.896	205.672	149.647	692.059	477.989	6.357	3.824
20200922-AFRO Mean	67840.625	1807.256	243.153	254.750	1709.625	38.546		3.375
20201022-AFRO Mean	76694.000	2022.678	344.233	390.813		41.636		4.938
20201122-AFRO Mean 20201211-AFRO Mean		2022.078	3626.750	650.313	2008.188	41.030		13.938
	99607.813	Concession of the local division of the loca	6346.500					
20201231-AFRO Mean 20210111-AFRO Mean		2651.309 3051.689	9746.438	767.125 1626.938	2337.563 2699.688	51.966 59.815	158.813 249.813	32.750 30.125
		3459.143	8450.688	1222.313		69.073	266.250	41.000
					3127.875			
20210131-AFRO Mean	128280.625	3459.143 4017.625	8450.688 3573.813	1222.313	3127.875 3791.000	69.073 85.463	266.250 151.250	41.000
20010010 APDO 114		/111/675	17/1X13	491.063	A / 91 (000)	A X3 /63	1 21 250	/11/148
20210213-AFRO Mean 20210220-AFRO Mean		4190.000	3109.438	441.875		88.888	-	13.625

Figure A11. Cont.

Negrin         Cumulative million         Instrigation (papertable)         New (papertable)         Cumulative (papertable)         New (papertable)         New (papertable)         New (papertable)         New (papertable)           20200222-AMRO         Mem         16.06         0.018         0.025         0.043         0.000         0.000         0.000         0.000           20200222-AMRO         Mem         1589 348         14.067         236 789         335.696         19.455         202.0297         17.858         21.479         120.222           20200522-AMRO         Mem         100564 348         104.028         2098 851         2655.291         67.53.957         65.491         139.975         166.692           20200622-AMRO         Mem         10438.601         250.301         896.313         150.33.201         12.33.413         130.867         11.43.043           20201022-AMRO         Mem         355.4960         767.457         759.395         565.8478         290.60.87         468.886         107.64         11.43.043           2020112-AMRO         Mem         1290.975.22         1294.311         101.952.03         3485.391         491.24         127.652         1282.478         290.46.87         491.249         127.652         128.587					Cases -				Deaths -						
Region         Cumulative rases         replication (server)         New (server)         Cumulative (server)         replication (server)         New (server)           20200222-AMRO         Mem         1.666         0.018         0.025         0.087         0.043         0.001         0.000         0.000           20200222-AMRO         Mem         1.4589         38         10.072         236.789         335.666         1.9556         0.194         40.25         4.478           20200222-AMRO         Mem         14431.666         352.012         1674.169         1466.556         232.2975         17.858         124.975         156.600           20200522-AMRO         Mem         19433.669         2530.301         3878.630         392.582         11403.130         163.584         139.957         156.640         120.582         120.252         120		Dat	a		cumulative	Cases -			cumulative	Deaths -					
case         population         Intr / days         cases         dends         population         ist 7 days         dends           20200222-AMR0         Mean         1.696         0.018         0.027         0.043         0.001         0.000         0.000           20200222-AMR0         Mean         1148.496         352.01         1066.56         232.025         117.130         103.025         110.413.01         103.027         145.137         143.137           20200622-AMR0         Mean         1045.665         230.927.851         140.313         103.027         145.137         143.137         143.137         143.137         143.137         143.137         143.137         143.137         143.137         123.020         120.222.048.02         Mean         346386.913         1667.521         565.847.81         290.06.687         468.896         107.452         124.652           2020122-AMR0         Mean         187.075.827         779.90.55         565.847.81         290.06.687         468.896         107.452         124.652           2020122-AMR0         Mean         184.066.65         241.150.75         90.057         10.798.03         150.898         184.848         124.892           2020121-AMR0         Mean         184.1666.65 </th <th></th> <th></th> <th></th> <th>~</th> <th>1127</th> <th>-</th> <th></th> <th></th> <th><b>.</b></th> <th></th> <th></th>				~	1127	-			<b>.</b>						
AMRO Region           20200222-AMRO         Mean         1.696         0.018         0.025         0.087         0.043         0.001         0.000         0.000           20200422-AMRO         Mean         1481.096         352.012         1674.169         1466.555         2362.957         17.858         124.778         127.779         126.53           20200222-AMRO         Mean         14433.669         1264.252         208.83         1263.531         121.5131         210.318         113.867         145.137         143.03           20200222-AMRO         Mean         14637.216         6282.727         4963.913         1261.5913         210.138         113.841         153.522           20201022-AMRO         Mean         687.77         579.655         558.5478         2990.687         468.896         117.475         124.652           2020122-AMRO         Mean         1827.757.22         153.595.90         184.086         1195.5000         3823.448         502.401.412.92         1267.657         127.853           20201213-AMRO         Mean         182.072.895.91         124.848         874.133         136.999.888         184.84.78         271.435           20210213-AMRO         Mean         142.145.075         990.7522	Region	-			ACTIVITY AND A CARL SHOW		a the day of a marked	a constant strategy and	CONTRACTOR OF THE OWNER OWNER OF THE OWNER						
2020222-AMRO         Mean         1.669         0.018         0.027         0.087         0.043         0.001         0.000         0.000           20200322-AMRO         Mean         1589.348         14.067         236.780         335.666         19.565         0.194         4.025         4.478           20200422-AMRO         Mean         100564         348         1040.285         20208.851         255.391         6753.957         65.491         139.971         156.600           2020022-AMRO         Mean         3438.609         253.001         3925.826         1140.3130         138.867         151.371         143.043           2020022-AMRO         Mean         34638.013         1051.944         550.4371         1964.087         124.848.26         30.246         140.255         156.5478           2020122-AMRO         Mean         169068.801         1793.655         5658.478         2906.087         468.896         107.745         124.652           2020121-AMRO         Mean         16278.722         1533.500         1021.04860         3345.737         1021.013         308.9988         184.847         121.452           2020121-AMRO         Mean         1701.455.57         50057.522         1231.600         524.478			1	cases	population			_deaths	population	last / days	deaths				
20200322-AMRO         Mem         1589.348         14.067         236.789         335.696         19.565         0.194         40.25         4.78           20200322-AMRO         Mem         10.0564.348         1040.285         208.881         2655.391         675.3957         65.491         13.975         156.609           20200522-AMRO         Mem         14338.609         13.671         166.202         102.5913         201.313         161.354         153.522           20200222-AMRO         Mem         353439.609         7074.487         5569.371         5964.087         21844.826         305.988         161.361         11.060           2020022-AMRO         Mem         83508.013         3086.727         5739.655         5658.478         2906.087         468.896         107.745         124.652           2020121-AMRO         Mem         183008.013         13086.727         5739.655         5658.478         2906.087         468.896         107.745         124.652           2020121-AMRO         Mem         182.174.135         131.0452.234.483.31         41.248         1271.453         120.927.427.833         120.927.837.512         1271.640.0488.943.134         599.888         184.848         271.435           2020121-AMRO         Mem	20200222 43	(DO	16	1.000	0.010		1256(USA76)	0.042	0.001	0.000	0.000				
2020422-AMRO         Mem         14481 (6%         352.012         1674 169         1466.565         2362.97         17.858         124.975         125.922           2020622-AMRO         Mem         10438 609         253.030         3878.630         392.832         1140.3130         130.867         145.131         143.04           20200822-AMRO         Mem         3438.609         253.030         3878.630         392.832         1140.3130         130.867         145.131         143.02           20200822-AMRO         Mem         687769 130         10519.814         502.452         3544.1430         26350.261         452.684         10.257         124.652           2020122-AMRO         Mem         1637769 130         10519.814         502.457         5658.478         290.6067         468.896         107.745         124.652           2020121-AMRO         Mem         12278.527         1579.613         1027.0143         3680.793         31.987         123.587         151.913           2021012-AMRO         Mem         1207.828         1468.043         57.467         170.70.81         860.703         31.9187         123.587         151.913           2021012-AMRO         Mem         181.8050         27.115.01.00.484         40.000															
20200522-AMRO         Mean         100561348         1040.285         2078 851         2655.591         675.997         65.491         139.075         156.600           20200722-AMRO         Mean         346386.0913         4667.216         6282.727         4963.913         16215.913         20.0131         161.354         153.522           20200822-AMRO         Mean         355436.609         767.4487         5569.371         5064.087         2184.4826         305.984         1120.208.6913           20201222-AMRO         Mean         835008.913         13066.727         7539.655         558.478         2900.087         468.896         1107.451         126.251         1665.222           20201123-MARO         Mean         1200683.404         17943.668         87474.783         13146.826         33485.391         491.249         1276.957         127.83           2020113-AMRO         Mean         1201614.322         2264.311         11122.220         1251.6000         42333.130         599.888         184.847         271.453           2021013-AMRO         Mean         141680.652         2441.5075         9907.522         1251.6000         4233.310         599.888         184.847         271.453           2021013-AMRO         Mean         1						C									
20200622-AMRO         Mean         194338 609         258.030         3878.630         3925.826         11403130         130.867         145.137         145.137         145.137         145.137         145.137         145.135           20200822-AMRO         Mean         555.439.609         7674.487         556.9371         596.4087         2184.4820         305.958         161.364         17.166           20200222-AMRO         Mean         687769.150         1051.9814         5024.552         354.130         205.556.81.87         2906.087         468.896         107.47.15         124.52           20201212-AMRO         Mean         12072875         1058.67.27         739.055         555.87.87         398.16.04         557.47         179.783         283.70         157.913           2020121-AMRO         Mean         120767.22         2264.511         11122.2687         16528.478         598.16.04         557.467         1790.783         288.602         224.412         224.602         224.512         120.50         4233.130         599.888         188.478         271.453         221.020.418.415.075         9057.522         1251.600         4233.130         599.88         1848.478         274.453         224.602         224.002         220.012.164         4764.456	Contraction of the Contraction o		CONTRACTOR CONTRACTOR	and the second second second second	and a transmission parts of a	Contraction and the second second	and the second second second		Contact (Contraction of the	and the president and					
20200722-AMRO         Mean         346386.913         4667.216         6282.727         4963.913         1671.5913         210.313         161.345         152.346         151.345         152.346         151.345         152.346         151.345         152.346         151.345         152.346         151.345         152.346         151.345         152.346         151.345         152.346         152.346         152.346         152.346         152.346         151.345         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346         152.346	Contraction of the second seco	ALC: NOT COMPANY					S. A. S.		A A Second States and A						
2020822-AMRO         Mean         553436 609         767.4487         5569 371         596.4087         2184.4326         305.958         161.366         171.696           2020022-AMRO         Mean         6877691.30         1051.981         5024.532         3544.130         26350.261         452.681         120.230         869.112           20201122-AMRO         Mean         1052787.522         15539.590         10840.863         11935.000         33823.478         526.244         140.255         165.552           2020121-AMRO         Mean         1500080341         17481         1314.682         3485.591         491.249         1276.057         127.878           2020121-AMRO         Mean         17101674.552         226.151.107         9067.522         12516.000         4233.130         559.888         184.8478         271.435           2021022-AMRO         Mean         17067.83         275.188.39         151.606         894.13.04         48945.304         679.491         814.65         22.4482           2021022-AMRO         Mean         1762.143         40.228         99.909         108.500         123.517         1.538         10.378         9.714           2021022-EMRO         Mean         1762.143         40.228         9				Construction of the local division of the lo	the second se			and the second se							
20200922-AMRO         Mem         687769         130         10519.814         5024.532         354.130         26350.261         452.681         120.230         86.913           20201122-AMRO         Mem         83508.913         13086.727         573.9655         5658.478         29906.087         452.686         107.745         124.652           20201122-AMRO         Mem         1290608.304         17943.686         87474.783         13146.826         33485.391         491.249         127.957         127.783           20201212-AMRO         Mem         1701674.522         22643.111         11122.087         16528.478         39816.043         567.467         1790.783         288.609           20210121-AMRO         Mem         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           20210123-AMRO         Mem         20189.335         2718.839         5815.666         8941.304         48945.304         679.491         1841.652         324.609           20200222-EMRO         Mem         742.144         0.211         0.286         0.887         0.571         0.0484         0.000         1.443           20200422-EMRO         Mem         7452.148<					THE REPORT OF TH		Internation of the officer of the officer of the								
20201022-AMRO         Mean         835008.913         13086.727         5739.655         5658.478         29096.087         408.406         1107.45         124.652           20201212-AMRO         Mean         1020787.522         15539.590         1084.083         11935.000         33823.478         526.246         140.255         166.522           2020121-AMRO         Mean         12076.957         212.788         7013.217         10271.043         36840.739         531.870         151.913           20201012-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           20210120-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1653.600         233.04           20201022-AMRO         Mean         1762.143         40.218         99.909         108.500         123.571         1.038         10.037         9.714           2020022-EMRO         Mean         4721.43         40.228         99.909         108.500         123.571         1.038         10.978         38.163.60         9.371           2020022-EMRO         Mean         1772.143         40															
20201122-AMRO         Mean         1082787.522         15392.590         10840.863         11935.000         3823.478         526.246         140.255         166.522           2020121-AMRO         Mean         120068.301         1794.368         87474.783         1314.6826         3485.391         491.249         1276.957         212.783           2020123-AMRO         Mean         1701674.522         22643.111         11222.087         16528.478         39816.043         557.477         170.783         2886.09           2021013-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           2021013-AMRO         Mean         129338.000         2801.165         47644.565         7280.391         509.8913         698.878         1635.609         233.04           20200222-EMRO         Mean         4.214         0.211         0.286         0.887         0.571         0.084         0.000         0.143           20200422-EMRO         Mean         7452.143         40.228         99.990         108.500         123.571         1.538         10.378         9.714           20200422-EMRO         Mean         5858.857         182.475															
2020121-AMRO         Mean         129608.304         17943.686         87474.783         13146.826         33485.391         491.249         127.6957         127.83           2020121-AMRO         Mean         151073.22643.111         111222.087         1528.478         3981.604.33         567.467         179.088         286.000           2021011-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           2021021-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           2021021-AMRO         Mean         124183.000         2520.116         47644.565         728.0391         50598.913         698.878         1653.609         253.04           20200222-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           2020022-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           2020022-EMRO         Mean         1582.7286         3872.591	Pro-			and the second s	South and the second second second	The rest of the second s		In South and the second	450 (144 (146 (147 (147 (147 (147 (147 (147 (147 (147		and the second se				
20201231-AMRO         Mean         1520728.957         20504.87         79013.217         10271.043         36840.739         531.987         1233.870         151.913           20210121-AMRO         Mean         1701674.522         22643.111         111222.087         16528.478         39816.043         567.467         1790.783         288.609           20210121-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.455           2021022-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1844.782         271.453           20210220-AMRO         Mean         129338.000         28201.163         47644.565         720.391         505.8913         698.878         1653.609         253.34           20200222-EMRO         Mean         1762.144         40.228         99.909         108.50         12.3571         1.538         10.378         9.714           2020022-EMRO         Mean         1762.144         40.228         99.909         108.50         12.3571         1.538         10.378         9.711           2020022-EMRO         Mean         1762.144         <															
2020111-AMRO         Mean         1701674522         22643.111         111222.087         16528.478         39816.043         567.467         1790.783         288.609           2021013-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           2021021-AMRO         Mean         2081693.435         27518.839         58151.606         8941.304         48945.304         679.491         1841.652         234.609           2021022-AMRO         Mean         12129338.000         28201.165         47644.565         7280.391         5058.913         698.78         1633.609         233.4609           20200222-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           2020022-EMRO         Mean         25528.857         1784.198         789.358         864.214         726.429         13.007         9.898         11.571           2020022-EMRO         Mean         25527.826         3872.539         1228.185         1007.000         1344.357         26.236         32.000         3.064.31           2020022-EMRO         Mean         135261.571         <															
20210121-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           20210121-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           20210212-AMRO         Mean         2129338.000         28201.165         47644.565         7280.391         50598.913         698.878         1653.609         253.304           20200222-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           20200222-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           2020022-EMRO         Mean         58297.286         3872.539         1228.185         1097.000         1344.357         26.263         32.000         30.643           2020022-EMRO         Mean         13261.357         6461.856         864.775         889.071         31.444.29         61.911         44.142         31.3667         31.571           2020022-EMRO         Mean         113261.357 <td></td>															
20210131-AMRO         Mean         1841680.652         24415.075         99067.522         12516.000         42333.130         599.888         1848.478         271.435           20210220-AMRO         Mean         1209338.000         28201.165         47644.565         7280.391         50598.913         698.878         1653.609         253.304           EMRO Region           EMRO Region           20200222-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           20200422-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.711           20200422-EMRO         Mean         95897.286         3872.539         1228.185         1097.000         1344.357         26.613         24.001         22.010         22.40         13.061         22.4157         3228.071         44.142         31.367         13.571           20200222-EMRO         Mean         113205.137         944.857         3878.292         102.566         26.153         24.459           20201022-EMRO         Mean         113958.771															
20210213-AMRO         Mean         2081693.435         27518.839         58151.696         8941.304         48945.304         679.491         1841.652         324.609           20210220-AMRO         Mean         122938.000         2820.1165         47644.565         7280.391         50588.013         698.878         1653.609         233.340           20200222-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           20200322-EMRO         Mean         9497.357         382.475         315.286         318.143         446.000         6.619         9.327         9.571           20200522-EMRO         Mean         5588.857         1784.198         789.358         884.214         726.429         13.007         9.898         11.571           2020022-EMRO         Mean         183261.357         4641.856         840.715         889.071         3146.429         61.911         24.061         32.167         31.571           2020022-EMRO         Mean         141395.071         8021.965         1051.531         914.857         3878.929         102.596         26.153         24.857           20201022-EMRO         Mean         1808089.786 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>															
20210220-AMRO         Mean         2129338.000         28201.165         47644.565         7280.391         50598.913         698.878         1653.609         253.304           EWRO Region           20200222-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           2020022-EMRO         Mean         9497.357         382.475         315.286         318.143         446.000         6.619         9.327         9.571           20200622-EMRO         Mean         85897.286         3872.539         1228.185         1007.000         1344.357         26.236         320.000         30.643           2020022-EMRO         Mean         85843.143         5274.597         804.582         812.571         2328.071         44.142         31.367         31.571           2020022-EMRO         Mean         11305.071         802.945         1051.351         914.857         3878.929         102.596         26.153         24.459           2020122-EMRO         Mean         11305.071         104.560         1805.429         74.0500         198.848         84.264           20201212-EMRO         Mean         13598.6643         17227.287		A STORE S	ET CONTRACTOR	Charles and the state of the second state of the	at the second second second	COLORA DI ALCONTROL PORTA A SUCCESSA	The second s			and a state of the state of the	and the second se				
EMRO Region           20200222-EMRO         Mean         4.214         0.211         0.286         0.857         0.571         0.084         0.000         0.143           20200422-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           20200422-EMRO         Mean         247.537         382.475         315.286         318.143         446.000         6.619         9.327         9.571           20200522-EMRO         Mean         5853.143         527.559         1228.185         1097.000         1344.357         26.236         32.000         30.643           20200722-EMRO         Mean         113261.357         6461.856         864.775         889.071         3146.429         61.911         24.061         22.214           20201022-EMRO         Mean         14395.071         8021.965         1051.531         914.857         3878.929         102.596         26.153         24.857           2020122-EMRO         Mean         14395.071         8370.190         244.449         2245.571         6450.786         162.727         61.898         84.266           2020121-EMRO         Mean         355015.714         19734.446 </td <td></td> <td>and the second second</td> <td>100000000000000000000000000000000000000</td> <td></td> <td></td> <td></td> <td>8/34/2014 - 2 - 26/9/27/8/9/2 5 -</td> <td>A STAR SHOULD AND A START</td> <td></td> <td></td> <td></td>		and the second second	100000000000000000000000000000000000000				8/34/2014 - 2 - 26/9/27/8/9/2 5 -	A STAR SHOULD AND A START							
20200222-EMRO         Mean         4.214         0.211         0.286         0.857         0.571         0.084         0.000         0.143           20200322-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           20200522-EMRO         Mean         2558         5827.236         315.143         446.000         6.619         9.327         9.571           20200522-EMRO         Mean         55297.286         3872.539         1228.185         1097.000         1344.357         26.236         32.000         30.643           20200222-EMRO         Mean         113261.357         6461.856         864.775         889.071         3146.429         61.911         24.061         22.214           2020122-EMRO         Mean         14309.071         8021.965         1051.531         914.857         3878.929         102.596         26.153         24.857           2020122-EMRO         Mean         14308.9786         1029.247         1478.326         1616.143         4796.143         109.958         38.163         42.429           2020121-EMRO         Mean         31598.643         1722.7287         9985.143         1469.286         803.9	a carolado a fi								57 5. 57 5	1300.000	T				
20200322-EMRO         Mean         1762.143         40.228         99.909         108.500         123.571         1.538         10.378         9.714           20200422-EMRO         Mean         9497.357         382.475         315.286         318.143         446.000         6.619         9.327         9.571           20200522-EMRO         Mean         58297.286         387.539         1228.185         1097.000         134.435         26.236         32.000         30.643           20200722-EMRO         Mean         185207.286         387.539         1228.185         1097.000         134.435         26.236         32.000         30.643           2020022-EMRO         Mean         113261.357         6461.856         880.071         314.629         61.911         24.061         22.144           20201022-EMRO         Mean         141395.071         8021.945         131         914.857         3878.929         102.596         26.153         24.857           20201212-EMRO         Mean         245318.571         13709.139         2444.459         2245.571         6405.409         180.871         25.071         36.071           2020121-EMRO         Mean         33510.000         18464.033         11581.357         1610.714	20200222-EN	<b>ARO</b>	Mean	4.214	0.211	-		0.571	0.084	0.000	0.143				
20200422-EMRO         Mean         9497.357         382.475         315.286         318.143         446.000         6.619         9.327         9.571           20200522-EMRO         Mean         25588.857         1784.198         789.358         864.214         726.429         13.097         9.898         11.511           20200622-EMRO         Mean         58297.286         3872.539         1228.185         1097.000         1344.357         262.36         32.000         30.643           2020022-EMRO         Mean         113261.357         6461.856         864.775         889.071         3146.429         61.911         24.061         22.214           2020022-EMRO         Mean         141395.071         8021.965         1051.531         914.857         878.929         102.596         26.153         24.83         24.2571         6450.786         162.727         61.898         54.286           2020122-EMRO         Mean         31598.643         1722.7287         9985.143         1469.286         803.714         218.308         215.714         30.071         20.477         14.83         216.171         40.071         20.429           20210121-EMRO         Mean         352615.714         19734.046         1230.3786         1789.000<															
20200522-EMRO         Mean         25588.857         1784.198         789.358         864.214         726.429         13.097         9.898         11.571           20200622-EMRO         Mean         88297.286         3872.539         1228.185         1097.000         1344.357         262.36         32.000         30.643           20200822-EMRO         Mean         113261.357         6461.856         864.775         889.071         3146.429         61.911         22.016         24.061         22.214           20200922-EMRO         Mean         141395.071         8021.965         1051.531         914.857         3878.929         102.596         26.153         24.857           20201122-EMRO         Mean         28917.364         1588.858         13605.143         1805.429         7440.500         198.081         25.071         36.071           2020121-EMRO         Mean         31596.643         17227.287         9985.143         1469.286         8039.714         218.308         215.714         30.071           2021011-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         864.1571         245.609         198.071         24.92           20210213-EMRO         Mean         352615.714															
20200622-EMRO         Mean         58297.286         3872.539         1228.185         1097.000         1344.357         26.236         32.000         30.643           20200722-EMRO         Mean         113261.357         6461.856         864.775         889.071         3146.429         61.911         24.061         22.214           2020022-EMRO         Mean         141395.071         8021.965         1051.31         914.857         3878.299         902.595         26.153         24.857           20201022-EMRO         Mean         140985.071         8021.965         1051.31         914.857         3878.299         902.596         26.153         24.857           20201122-EMRO         Mean         245318.571         13709.139         2444.459         2245.571         6450.786         162.727         61.898         54.286           20201212-EMRO         Mean         33510.000         18464.033         11581.357         1610.714         835.9857         230.977         180.571         24.571           20210121-EMRO         Mean         352615.714         1973.4046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210121-EMRO         Mean         352615.714         19734.0	Designed and the second s		1250/26721/ma			An other states and stat	and the second se				-				
20200722-EMRO         Mean         88543.143         5274.597         804.582         812.571         2328.071         44.142         31.367         31.571           20200822-EMRO         Mean         1143261.357         6461.856         864.775         889.071         3146.429         61.911         24.061         22.214           20201022-EMRO         Mean         141395.071         8021.965         1051.531         914.857         3879.29         102.596         26.153         248.57           20201122-EMRO         Mean         18089.786         10292.447         1478.326         1616.143         4796.143         109.958         38.163         42.429           20201122-EMRO         Mean         289173.643         15838.658         13605.143         1805.429         7440.500         198.081         295.071         36.071           20210121-EMRO         Mean         335110.000         18464.03         11581.357         1610.714         8359.857         230.977         180.571         24.509         198.071         29.429           2021021-EMRO         Mean         352615.714         1973.4046         12303.786         1789.000         8641.571         245.609         198.071         29.429           2021021-EMRO         Mean </td <td></td> <td>Concernence and the</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Concernence and the													
20200822-EMRO         Mean         113261.357         6461.856         864.775         889.071         3146.429         61.911         24.061         22.214           20200922-EMRO         Mean         141395.071         8021.965         1051.531         914.857         3878.929         102.596         26.153         24.857           20201122-EMRO         Mean         124318.571         13709.139         2444.459         2245.571         6450.786         162.727         61.898         54.286           2020121-EMRO         Mean         289173.643         15838.658         13605.143         1805.429         7440.500         198.081         295.071         36.071           20201231-EMRO         Mean         33510.000         1846.4033         11581.357         1610.714         8359.857         230.797         180.571         24.571           20210121-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210213-EMRO         Mean         388715.143         2230.686         11156.429         1670.357         9284.500         285.779         170.429         20.000           20200222-WPRO         Mean         144380.250         <						-					1000 1000 1000 1000 1000 1000 1000 100				
20200922-EMRO         Mean         141395.071         8021.965         1051.531         914.857         3878.929         102.596         26.153         24.857           20201022-EMRO         Mean         180089.786         10292.447         1478.326         1616.143         4796.143         109.958         38.163         42.429           20201122-EMRO         Mean         245318.571         13709.139         2444.459         2245.571         6450.786         166.727         61.888         54.286           2020121-EMRO         Mean         245318.571         15838.658         13605.143         1805.429         7440.500         198.081         295.071         36.071           20210111-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210121-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210220-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210220-EMRO         Mean         6423.917	August and a second					-									
20201022-EMRO         Mean         180089.786         10292.447         1478.326         1616.143         4796.143         109.958         38.163         42.429           20201122-EMRO         Mean         245318.571         13709.139         2444.459         2245.571         6450.786         162.727         61.898         54.286           2020121-EMRO         Mean         31598.643         15838.658         13605.143         1805.429         7440.500         198.081         295.071         36.071           20210121-EMRO         Mean         33510.000         18464.033         11581.357         1610.714         8359.857         230.797         180.571         245.711         29.429           20210131-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210213-EMRO         Mean         388715.143         2320.686         11156.429         1670.357         9284.500         285.779         170.429         20.000           20210220-EMRO         Mean         6423.917         7.461         108.453         86.417         20.337         1.845         2.083           20200222-WPRO         Mean         14380.250         574.50	20200922-EN	MRO	Mean	141395.071	8021.965		914.857	3878.929		26.153	24.857				
20201211-EMRO         Mean         289173.643         15838.658         13605.143         1805.429         7440.500         198.081         295.071         36.071           20201231-EMRO         Mean         31598.643         17227.287         9985.143         1469.286         8039.714         218.308         215.714         30.071           20210111-EMRO         Mean         335110.000         18464.033         11581.357         1610.714         8359.857         230.797         180.571         24.571           20210121-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210213-EMRO         Mean         358715.143         2230.686         11156.429         1670.357         9284.500         285.779         170.429         20.000           20210220-EMRO         Mean         6423.917         7.461         108.453         86.417         20.3.917         0.167         9.310         17.550           20200222-WPRO         Mean         11432.083         242.629         146.465         147.000         482.917         2.103         3.179         9.000           20200422-WPRO         Mean         11432.083         242.629	20201022-EN	MRO	Mean	180089.786	10292.447	1478.326	1616.143	4796.143	109.958	38.163	42.429				
20201231-EMRO         Mean         315986.643         17227.287         9985.143         1469.286         8039.714         218.308         215.714         30.711           20210111-EMRO         Mean         335110.000         18464.033         11581.357         1610.714         8359.857         230.797         180.571         24.571           20210121-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210131-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210232-EMRO         Mean         388715.143         22320.686         11156.429         1670.357         9284.500         285.779         170.429         20.000           20210220-EMRO         Mean         400483.429         23101.436         1645.357         288.417         0.537         1.0429         25.500           20200222-WPRO         Mean         7924.333         38.684         43.618         64.357         288.417         0.537         1.845         2.083           20200422-WPRO         Mean         11432.083         242.629         146.46	20201122-EN	MRO	Mean	245318.571	13709.139	2444.459	2245.571	6450.786	162.727	61.898	54.286				
20210111-EMRO         Mean         335110.000         18464.033         11581.357         1610.714         8359.857         230.797         180.571         24.571           20210121-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210131-EMRO         Mean         352615.714         19734.046         12303.786         1789.000         8641.571         245.609         198.071         29.429           20210213-EMRO         Mean         388715.143         22320.686         11156.429         1670.357         9284.500         285.779         170.429         20.000           20210220-EMRO         Mean         400483.429         23101.436         11768.286         1695.929         9450.929         295.143         166.429         25.500           20200222-WPRO         Mean         7924.333         38.684         43.618         664.357         288.417         0.537         1.845         2.083           20200422-WPRO         Mean         11432.083         242.629         146.465         147.000         482.917         2.103         3.179         9.000           20200522-WPRO         Mean         17224.000         784.03 <th>20201211-EN</th> <th>MRO</th> <th>Mean</th> <th>289173.643</th> <th>15838.658</th> <th>13605.143</th> <th>1805.429</th> <th>7440.500</th> <th>198.081</th> <th>295.071</th> <th>36.071</th>	20201211-EN	MRO	Mean	289173.643	15838.658	13605.143	1805.429	7440.500	198.081	295.071	36.071				
20210121-EMROMean352615.71419734.04612303.7861789.0008641.571245.609198.07129.42920210131-EMROMean352615.71419734.04612303.7861789.0008641.571245.609198.07129.42920210213-EMROMean388715.14322320.68611156.4291670.3579284.500285.779170.42920.00020210220-EMROMean400483.42923101.43611768.2861695.9299450.929295.143166.42925.500WPRO Region20200222-WPROMean6423.9177.461108.45386.417203.9170.1679.31017.25020200322-WPROMean11432.083242.629146.465147.000482.9172.1033.1799.00020200522-WPROMean117224.000784.03083.61988.012610.9173.7051.4421.90020200622-WPROMean17224.000784.03083.61988.012610.9173.7051.4421.9002020022-WPROMean37298.0831249.674490.690506.548824.1677.3657.4688.0002020022-WPROMean5754.6671503.188306.213250.0831244.75012.8524.667172.5002020122-WPROMean5894.600165.204423.881482.7861396.00014.5055.0607.1002020122-WPROMean5854.6671503.188306.213250.083	20201231-EN	MRO	Mean	315986.643	17227.287	9985.143	1469.286	8039.714	218.308	215.714					
20210131-EMROMean352615.71419734.04612303.7861789.0008641.571245.609198.07129.42920210213-EMROMean388715.14322320.68611156.4291670.3579284.500285.779170.42920.00020210220-EMROMean400483.42923101.43611768.2861695.9299450.929295.143166.42925.500WRO Region20200222-WPROMean6423.9177.461108.45386.417203.9170.1679.31017.25020200222-WPROMean7924.33338.68443.61864.357288.4170.5371.8452.08320200222-WPROMean11432.083242.629146.465147.000482.9172.1033.1799.00020200222-WPROMean17224.000784.03083.61988.012610.9173.7051.4421.90020200222-WPROMean17224.000784.03083.61988.012610.9173.7051.4421.90020200022-WPROMean37298.0831249.674490.690506.548824.1677.3657.4688.00020200022-WPROMean57564.6671503.188306.213250.0831244.75012.8524.667172.5002020022-WPROMean57564.6671503.188306.213250.0831244.75012.8524.667172.500 <th <="" colspan="4" td=""><td>20210111-EN</td><td>MRO</td><td>Mean</td><td>335110.000</td><td>18464.033</td><td>11581.357</td><td>1610.714</td><td>8359.857</td><td>230.797</td><td>180.571</td><td>24.571</td></th>	<td>20210111-EN</td> <td>MRO</td> <td>Mean</td> <td>335110.000</td> <td>18464.033</td> <td>11581.357</td> <td>1610.714</td> <td>8359.857</td> <td>230.797</td> <td>180.571</td> <td>24.571</td>				20210111-EN	MRO	Mean	335110.000	18464.033	11581.357	1610.714	8359.857	230.797	180.571	24.571
20210213-EMROMean388715.14322320.68611156.4291670.3579284.500285.779170.42920.00020210220-EMROMean400483.42923101.43611768.2861695.9299450.929295.143166.42925.500UPURO ELEMENT20200222-WPROMean6423.9177.461108.45386.417203.9170.1679.31017.25020200222-WPROMean7924.33338.68443.61864.357288.4170.5371.8452.08320200422-WPROMean11432.083242.629146.465147.000482.9172.1033.1799.00020200522-WPROMean11438.050574.50969.34669.833568.3333.2361.7792.40020200222-WPROMean1722.400784.03088.61988.012610.9173.7051.4421.90020200622-WPROMean1722.400784.03083.61988.012610.9173.7051.4421.90020200222-WPROMean37298.0831249.674490.690506.548824.1677.3657.4688.0002020022-WPROMean5564.67153.188306.213250.0831244.75012.8524.66717.5002020022-WPROMean55764.6671503.188306.213250.0831244.75012.8524.66717.500202010	20210121-EN	MRO	Mean	352615.714	19734.046	12303.786	1789.000	8641.571	245.609	198.071	29.429				
20210220-EMROMean400483.42923101.43611768.2861695.9299450.929295.143166.42925.50020200222-WPROMean6423.9177.461108.45386.417203.9170.1679.31017.25020200322-WPROMean7924.33338.68443.61864.357288.4170.5371.8452.08320200422-WPROMean11432.083242.629146.465147.000482.9172.1033.1799.00020200522-WPROMean1132.083242.629146.465147.000482.9172.1033.1799.00020200522-WPROMean17224.000784.03069.34669.833568.3333.2361.7792.40020200622-WPROMean17224.000784.03083.61988.012610.9173.7051.4421.90020200222-WPROMean37298.0831249.674490.690506.548824.1677.3657.4688.0002020022-WPROMean57564.6671503.188306.213250.0831244.75012.8524.667172.50020201022-WPROMean68270.001665.204423.881482.7861396.00014.50551.70052.0002020122-WPROMean57564.6671503.188306.213250.0831244.75012.8524.667170.5002020122-WPROMean682	20210131-EN	MRO	Mean	352615.714	19734.046	12303.786	1789.000	8641.571	245.609	198.071	29.429				
WPRO Region           20200222-WPRO         Mean         6423.917         7.461         108.453         86.417         203.917         0.167         9.310         17.250           20200322-WPRO         Mean         7924.333         38.684         43.618         64.357         288.417         0.537         1.845         2.083           20200422-WPRO         Mean         11432.083         242.629         146.465         147.000         482.917         2.103         3.179         9.000           20200522-WPRO         Mean         14380.250         574.509         69.346         69.833         568.333         3.236         1.779         2.400           20200622-WPRO         Mean         17224.000         784.030         83.619         88.012         610.917         3.705         1.442         1.900           20200722-WPRO         Mean         22589.000         948.434         281.905         293.512         674.750         4.456         3.467         0.900           20200822-WPRO         Mean         37298.083         1249.674         490.690         506.548         824.167         7.365         7.468         8.000           20201022-WPRO         Mean         57564.667         1503.188	a supervise district the district design and and	and the second second second	The state of the state of the			CREAT LINE LINE ALL STREET			5656.021 ACC074.1200	2004 (State State					
20200222-WPRO         Mean         6423.917         7.461         108.453         86.417         203.917         0.167         9.310         17.250           20200322-WPRO         Mean         7924.333         38.684         43.618         64.357         288.417         0.537         1.845         2.083           20200422-WPRO         Mean         11432.083         242.629         146.465         147.000         482.917         2.103         3.179         9.000           20200522-WPRO         Mean         14380.250         574.509         69.346         69.833         568.333         3.236         1.779         2.400           20200622-WPRO         Mean         17224.000         784.030         83.619         88.012         610.917         3.705         1.442         1.900           20200822-WPRO         Mean         37298.083         1249.674         490.690         506.548         824.167         7.365         7.468         8.000           20200922-WPRO         Mean         57564.667         1503.188         306.213         250.083         1244.750         12.852         4.667         172.500           20201022-WPRO         Mean         68270.000         1665.204         423.881         482.786	20210220-EN	MRO	Mean	400483.429	23101.436			9450.929	295.143	166.429	25.500				
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20200922-WPROMean58094.6001333.092326.392391.3001326.60010.8695.9412.80020201022-WPROMean57564.6671503.188306.213250.0831244.75012.8524.667172.50020201122-WPROMean68270.0001665.204423.881482.7861396.00014.5055.0607.10020201211-WPROMean77985.1671777.8323658.749603.6311508.16715.87551.7005.20020201231-WPROMean88578.0831956.0454330.005625.1321648.83317.77466.60010.50020210111-WPROMean98187.6672106.4026325.498915.7261758.75019.20881.70088.00020210121-WPROMean108010.5832265.7047175.5831005.5831892.83320.745104.60018.80020210131-WPROMean108010.5832265.7047175.5831005.5831892.83320.745104.60018.80020210213-WPROMean125499.3332602.0124187.464597.9172237.50024.636100.66710.583															
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20201122-WPROMean68270.0001665.204423.881482.7861396.00014.5055.0607.10020201211-WPROMean77985.1671777.8323658.749603.6311508.16715.87551.7005.20020201231-WPROMean88578.0831956.0454330.005625.1321648.83317.77466.60010.50020210111-WPROMean98187.6672106.4026325.498915.7261758.75019.20881.7008.00020210121-WPROMean108010.5832265.7047175.5831005.5831892.83320.745104.60018.80020210131-WPROMean108010.5832265.7047175.5831005.5831892.83320.745104.60018.80020210213-WPROMean125499.3332602.0124187.464597.9172237.50024.636100.66710.583															
20201211-WPROMean77985.1671777.8323658.749603.6311508.16715.87551.7005.20020201231-WPROMean88578.0831956.0454330.005625.1321648.83317.77466.60010.50020210111-WPROMean98187.6672106.4026325.498915.7261758.75019.20881.7008.00020210121-WPROMean108010.5832265.7047175.5831005.5831892.83320.745104.60018.80020210131-WPROMean108010.5832265.7047175.5831005.5831892.83320.745104.60018.80020210213-WPROMean125499.3332602.0124187.464597.9172237.50024.636100.66710.583			- Louis Long Morrison												
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20210111-WPRO         Mean         98187.667         2106.402         6325.498         915.726         1758.750         19.208         81.700         80.00           20210121-WPRO         Mean         108010.583         2265.704         7175.583         1005.583         1892.833         20.745         104.600         18.800           20210131-WPRO         Mean         108010.583         2265.704         7175.583         1005.583         1892.833         20.745         104.600         18.800           20210213-WPRO         Mean         125499.333         2602.012         4187.464         597.917         2237.500         24.636         100.667         10.583															
20210121-WPRO         Mean         108010.583         2265.704         7175.583         1005.583         1892.833         20.745         104.600         18.800           20210131-WPRO         Mean         108010.583         2265.704         7175.583         1005.583         1892.833         20.745         104.600         18.800           20210213-WPRO         Mean         125499.333         2602.012         4187.464         597.917         2237.500         24.636         100.667         10.583															
20210131-WPRO         Mean         108010.583         2265.704         7175.583         1005.583         1892.833         20.745         104.600         18.800           20210213-WPRO         Mean         125499.333         2602.012         4187.464         597.917         2237.500         24.636         100.667         10.583	And and a second s			and the second se											
20210213-WPRO Mean 125499.333 2602.012 4187.464 597.917 2237.500 24.636 100.667 10.583						Comments of the second s									
											-				
19.404 19.200	20210220-W	PRO	Mean	129280.500	2675.932	3775.107	558.000	2317.250	25.563	79.464	19.250				

Figure A11. Cont.

$\smallsetminus$		Cases -				Deaths -					
Data		cumulative	Cases -			cumulative	Deaths -				
		total per 1	newly			total per 1	newly				
Region	Cumulative_	million	reported in	New_	Cumulative	million	reported in	New_			
	cases	population	last 7 days	cases	_deaths	population	last 7 days	deaths			
	SEARO Region										
20200222-SEARO Mean	8.000	0.140	0.020	0.000	0.000	0.000	0.000	0.000			
20200322-SEARO Mean	226.571	2.540	25.550	48.429	8.286	0.030	1.000	2.000			
20200422-SEARO Mean	4908.286	18.475	289.304	296.714	207.286	0.650	10.571	11.429			
20200522-SEARO Mean	24870.429	68.582	1098.857	1212.571	772.714	1.618	27.755	31.429			
20200622-SEARO Mean	86092.143	241.949	2719.490	2827.857	2542.000	4.283	96.122	74.000			
20200722-SEARO Mean	217445.571	475.484	6169.204	6068.286		7.999	120.531	118.714			
20200822-SEARO Mean	493918.000	830.963	10047.123	10698.714	9503.429	13.411	154.612	156.429			
20200922-SEARO Mean	891640.143	1390.209	13767.367	11726.571	19622.143	233.817	185.510	177.714			
20201022-SEARO Mean	1234023.000	2130.208	9334.267	9410.571	19501.571	29.073	124.367	123.000			
20201122-SEARO Mean	1469369.429	2816.601	7219.816	7672.857	22517.286	37.523	95.184	87.857			
20201211-SEARO Mean	1600255.714	3259.593	40933.143	5608.143	24286.429	39.797	614.000	92.429			
20201231-SEARO Mean	1684560.286	3567.899	30241.571	4402.000		43.654	525.000	82.143			
20210111-SEARO Mean	1734513.429	3762.234	29138.286	4010.429	26469.571	46.270	446.000	53.714			
20210121-SEARO Mean	1773951.714	3916.087	27735.571	4239.857	27142.429	48.590	461.714	61.857			
20210131-SEARO Mean	1773951.714	3916.087	27735.571	4239.857	27142.429	48.590	461.714	61.857			
20210213-SEARO Mean	1858065.857	4263.829	22326.571	3373.000	28425.429	53.286	316.857	55.714			
20210220-SEARO Mean	1880249.857	4345.486	22184.000	3672.714	28754.143	54.586	328.714	42.571			

Figure A11. Before vaccination mean value of each WHO region comparison.

		Cases -	Cases -			Deaths -	Deaths -	<u> </u>
Data		cumulative total	newly			cumulative total	newly	
Region	Cumulative	per 1 million		New c	Cumulative	per 1 million	reported in	New
ringion	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
		* *	20200222-F	PDI				
20200222-Global-PDI	0.060	0.062	0.058	0.049	0.061	0.115	0.060	0.060
20200222-EURO-PDI	-0.176	-0.339*	-0.073	-0.060	0.048	0.048	na	na
20200222-AFRO-PDI	na	na	na	na	na	na	na	na
20200222-AMRO-PDI	-0.455*	-0.408	-0.489*	-0.489*	-0.027	-0.027	na	na
20200222-WPRO-PDI	0.195	0.217	0.191	0.169	0.196	0.199	0.195	0.195
20200222-SEARO-PDI	-0.638	-0.661	-0.557	na	na	na	na	na
20200222-EMRO-PDI	-0.305	0.133	-0.373	-0.378	-0.146	0.312	na	-0.432
20200322-Global-PDI	-0.122	-0.409**	20200322-F	-0.229*	-0.071	-0.160	-0.128	-0.125
20200322-GIODAI-PDI 20200322-EURO-PDI	-0.122	<u>-0.409</u> _0.435 <sup>**</sup>	-0.259	-0.229 -0.164	-0.071	-0.125	-0.128	
20200322-AFRO-PDI	-0.482	-0.451	-0.423	-0.261	0.232	0.211	0.244	
20200322-AMRO-PDI	-0.338	-0.372	-0.347	-0.329	-0.344	-0.433*	-0.355	-0.336
20200322-WPRO-PDI	0.188	-0.018	-0.381	0.060	0.195	0.142	0.240	0.559
20200322-SEARO-PDI	-0.428	-0.300	-0.435	-0.542	0.046	0.012	0.051	0.066
20200322-EMRO-PDI	-0.432	-0.136	-0.465	-0.449	-0.431	-0.429	-0.438	-0.430
20200422 CL 1 1 DDI	*	0.000	20200422-F		*	*	*	*
20200422-Global-PDI 20200422-EURO-PDI	-0.195* -0.159	-0.083 0.003	-0.149 -0.021	-0.138	-0.217 <sup>*</sup> -0.147	- <b>0.197</b> * -0.106	-0.215 <sup>*</sup> -0.170	
20200422-BURO-PDI 20200422-AFRO-PDI	-0.139	-0.192	-0.021	-0.307	0.147	0.160	-0.170	0.321
20200422-AFRO-PDI 20200422-AMRO-PDI	-0.303	-0.192	-0.271 -0.346	-0.345	-0.337	-0.310	-0.026	
20200422-AIVIRO-PDI	0.202	0.018	0.122	0.120	0.223	0.012	0.082	-0.145
20200422-SEARO-PDI	-0.029	-0.337	0.122	0.051	0.032	-0.072	0.052	
20200422-EMRO-PDI	-0.404	0.303	-0.180	And the second second	-0.455	-0.407	-0.523	and the second sec
		0.000	20200522-F		0.100	0.107	0.020	0.0 22
20200522-Global-PDI	-0.143	-0.121	-0.036	-0.034	-0.194*	-0.258**	-0.111	-0.101
20200522-EURO-PDI	-0.033	-0.345*	0.184	0.182	-0.144	-0.223	-0.083	-0.075
20200522-AFRO-PDI	-0.402	-0.085	-0.542*	-0.531*	-0.087	0.068	-0.493	-0.506*
20200522-AMRO-PDI	-0.330	-0.195	-0.291	-0.232	-0.314	-0.168	-0.229	-0.210
20200522-WPRO-PDI	0.255	0.088	0.288	0.303	0.237	0.004	0.091	-0.102
20200522-SEARO-PDI	0.255	0.088	0.288	0.303	0.237	0.004	0.091	-0.102
20200522-EMRO-PDI	-0.258	0.447	-0.004 20200622-F		-0.498	-0.258	-0.600	-0.614*
20200622-Global-PDI	-0.093	0.037	-0.012	-0.023	-0.160	0.005	0.017	-0.003
20200622-EURO-PDI	0.056	-0.116	0.227	0.254	-0.130	-0.237* -0.223	0.017	0.173
20200622-AFRO-PDI	-0.569 <sup>*</sup>	-0.338	-0.614	-0.607*	-0.130	-0.430	-0.552*	
20200622-AMRO-PDI	-0.291	-0.018	-0.169	-0.196	-0.265	-0.069	-0.022	-0.035
20200622-WPRO-PDI	0.336	0.104	0.419	0.414	0.257	0.085	0.341	
20200622-SEARO-PDI	0.035		0.028		0.028	0.071	0.019	
20200622-EMRO-PDI	-0.259	0.452		-0.215	-0.543*	-0.010		-0.368
			20200722-F	PDI				
20200722-Global-PDI	-0.075	0.093	-0.056	-0.049	-0.125	-0.157	0.002	0.000
20200722-EURO-PDI	0.101	0.064	0.222	0.215	-0.110	-0.163	0.296*	0.261
20200722-AFRO-PDI	-0.624**	-0.546*	-0.650**	-0.629**	-0.619*	-0.558*	-0.677**	-0.662**
20200722-AMRO-PDI	-0.273	0.076	-0.264	-0.282	-0.222	0.017	-0.088	-0.091
20200722-WPRO-PDI	0.414	0.112	0.295		0.302	0.188	0.377	
20200722-SEARO-PDI	0.026	-0.030	0.017		0.026	0.080	0.021	
20200722-EMRO-PDI	-0.194	0.491	0.039		-0.483	0.093	-0.330	-0.355
20200022 01-1-1 007	0.050	0.100	20200822-F	_	0 101	0.000	0.001	0.005
20200822-Global-PDI	-0.058	0.102	-0.006	The second second	-0.101	-0.099	0.001	
20200822-EURO-PDI	0.120	0.132	0.127	0.085	-0.089	-0.095	0.342*	
20200822-AFRO-PDI	-0.636**	-0.621*	-0.631**		-0.643**	-0.645**	-0.666**	-0.679
20200822-AMRO-PDI	-0.263	0.101	-0.230		-0.203	0.056		-0.124
20200822-WPRO-PDI	0.412	0.128	0.336		0.332	0.060	0.253	
20200822-SEARO-PDI	0.017	-0.052	0.008	0.008	0.020	0.034	0.013	
20200822-EMRO-PDI	-0.135	0.526	0.184	0.175	-0.436	0.098	-0.202	-0.200

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Figure A12. Cont.

$\sim$		1	Cases -	Cases -			Deaths -	Deaths -	
	Data		cumulative total	newly			cumulative total	newly	
Region	Data	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
	~	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
				20200922-F	PDI				
20200922-Globa	al-PDI	-0.046	0.066	-0.020	-0.019	-0.055	0.040	0.003	0.029
20200922-EUR		0.104	0.093	-0.017	0.006	-0.049	-0.008	0.205	0.196
20200922-AFR		-0.638**	-0.648**	-0.585*	-0.407	0.042	-0.006	-0.649**	-0.623**
20200922-AMR		-0.263	0.025	-0.293	-0.339	-0.193	0.191	-0.193	
20200922-WPR 20200922-SEAI		0.404	0.155	0.377	0.387	0.370	0.068	0.339	0.205
20200922-SEA		-0.083	0.565*	-0.003	-0.014	-0.434	0.197	-0.277	
		0.005		20201022-F		0.101	0.120	0.277	0.277
20201022-Globa	al-PDI	-0.048	-0.008	-0.100	-0.106	-0.076	-0.055	-0.048	-0.043
20201022-EUR	O-PDI	0.072	0.048	0.006	0.003	-0.045	0.031	0.156	0.128
20201022-AFR0	O-PDI	-0.636**	-0.651**	-0.576*	-0.578*	-0.645**	-0.671**	-0.629**	-0.156
20201022-AMR	RO-PDI	-0.275	-0.059	-0.348	-0.343	-0.199	0.055	-0.281	-0.222
20201022-WPR	O-PDI	0.419	0.195	0.514	0.514	0.391	0.137	0.438	0.426
20201022-SEAI		0.006	-0.296	-0.022	-0.019	0.014	-0.143	0.005	-0.005
20201022-EMR	.O-PDI	-0.112	0.580*	-0.271	-0.309	-0.403	0.033	-0.443	-0.472
				20201122-F					
20201122-Globa		-0.075	-0.092	-0.137	-0.128	-0.081	-0.062	-0.125	1000000
20201122-EUR		0.041	0.077	0.021	0.053	-0.019	0.129	0.048	
20201122-AFR		-0.631**	-0.647**	-0.501*	-0.502*	-0.642**	-0.663**	-0.628**	-0.303
20201122-AMR		-0.299	-0.152	-0.337	-0.332	-0.210	0.034	-0.294	-0.291
20201122-WPR		0.437	0.248	0.294	0.250	0.404	0.204	0.374	
20201122-SEAL		0.003	-0.359	0.001	-0.001	0.011	-0.252 -0.193	0.010	
20201122-EMR	U-PDI	-0.263	0.531	<u>-0.575</u> * 20201211-F	<u>-0.596</u> *	-0.439	-0.193	-0.564	-0.531
20201211-Globa	al_PDI	-0.085	-0.126	-0.127	-0.137	-0.090	-0.093	-0.131	-0.135
20201211-G1008		0.046	0.069	0.066	0.021	-0.008	0.151	0.045	
20201211-AFR0		-0.629**	-0.651**		-0.628**	-0.641**	-0.664**	-0.65**	0.653**
20201211-AMR		-0.307	-0.184	-0.326	-0.322	-0.228	0.044	-0.288	
20201211-WPR		0.438	0.287	0.289	0.271	0.395	0.200	0.136	
20201211-SEA		0.003	-0.372	0.009	0.007	0.013	-0.185	0.016	
20201211-EMR	O-PDI	-0.349	0.473	-0.620*	-0.646*	-0.459	-0.273	-0.605*	-0.621*
				20201231-F					
20201231-Globa	al-PDI	-0.097	-0.156	-0.158	-0.178	-0.097	-0.104	-0.149	-0.184 <sup>*</sup>
20201231-EUR	O-PDI	0.032	0.033	-0.074	-0.117	-0.007	0.171	-0.004	-0.040
20201231-AFR0	O-PDI	-0.635**	-0.663**	-0.658**	-0.655**	-0.645**	-0.671**	-0.661**	0.663**
20201231-AMR		-0.312	-0.174	-0.327	-0.335	-0.236	0.035	-0.282	-0.325
20201231-WPR		0.432	0.324	0.150	01.4.10	0.379	0.198	-0.043	
20201231-SEAH	And the second se	0.004	-0.357	0.017			-0.187	0.040	44
20201231-EMR	O-PDI	-0.388	0.441	-0.705	and some other states in the second states of the second states of the second states of the second states of the	-0.478	-0.311	-0.823**	0.814**
20210111 41	1 13151	0.104	0.100	20210111-F		0.204	0.110	0.1.60	0.146
20210111-Globa 20210111-EUR0	and the state of the	-0.106	addining random	-0.170	and the second second	-0.104 -0.016	-0.119		-0.146
20210111-EURO 20210111-AFRO		0.011 - <b>0.641</b> **		-0.145			0.154	-0.107	-0.102
20210111-AFR	and a second sec	-0.641 -0.315	-0.676 <sup>***</sup> -0.159	-0.668 -0.329	-0.676 <sup>***</sup> -0.320	-0.649** -0.240	- <b>0.682</b> ** 0.036		<b>0.694</b> -0.253
20210111-AMR 20210111-WPR		0.418		0.080	0.124	0.366	0.030		-0.233
20210111-WFR	Service Contractor Services	0.418	-0.345	0.080	0.031	0.015	-0.177	0.045	
20210111-EMR		-0.410			-0.608*	-0.489	-0.329	44	0.807**
				20210121-F					
20210121-Globa	al-PDI	-0.112	-0.196 <sup>*</sup>	-0.157	-0.159	-0.110	-0.137	-0.171	-0.163
20210121-EUR	O-PDI	-0.002	-0.049	-0.108	-0.116	-0.028	0.126	-0.116	-0.127
20210121-AFR	O-PDI	-0.644**	-0.688**	-0.662**	-0.655**	-0.653**	-0.690**	-0.664**	0.659**
20210121-AMR	O-PDI	-0.316		-0.318	-0.296	-0.242	0.039		-0.169
DODICIDI I LULL					0.0.00	0.050	0.011	0.105	0.100
20210121-WPR	O-PDI	0.408	0.387	0.196	0.260	0.356	0.211	0.105	0.102
and the second		0.408 0.005	0.387 -0.341	0.196	0.260	0.356	-0.171		0.102

Figure A12. Cont.

		Cases -	Cases -			Deaths -	Deaths -				
Data		cumulative total	newly			cumulative total	newly				
Region	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_			
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths			
	20210130-PDI										
20210130-Global-PDI	-0.114	-0.198*	-0.135	-0.097	-0.113	-0.146	-0.150	-0.107			
20210130-EURO-PDI	-0.001	-0.052	-0.041	0.106	-0.035	0.112	-0.092	0.043			
20210130-AFRO-PDI	-0.644**	-0.693**	-0.627**	-0.607*	-0.655**	-0.697**	-0.672**	0.671**			
20210130-AMRO-PDI	-0.315	-0.153	-0.308	-0.300	-0.242	0.039	-0.247	-0.243			
20210130-WPRO-PDI	0.412	0.419	0.354	0.444	0.345	0.221	0.136	0.076			
20210130-SEARO-PDI	0.005	-0.343	0.023	0.021	0.017	-0.164	0.050	0.044			
20210130-EMRO-PDI	-0.431	0.386	-0.431	-0.404	-0.508	-0.352	-0.762**	-0.71**			
			20210213-F	DI							
20210213-Global-PDI	-0.115	-0.200 <sup>*</sup>	-0.125	-0.111	-0.116	-0.152	-0.128	-0.116			
20210213-EURO-PDI	-0.005	-0.057	-0.016	0.018	-0.040	0.099	-0.051	-0.037			
20210213-AFRO-PDI	-0.643**	-0.695**	-0.520*	-0.476	-0.656**	-0.701**	-0.666**	0.658**			
20210213-AMRO-PDI	-0.315	-0.156	-0.299	-0.286	-0.242	0.041	-0.227	-0.231			
20210213-WPRO-PDI	0.433	0.463	0.527	0.570	0.330	0.242	0.152	0.049			
20210213-SEARO-PDI	0.005	-0.341	0.042	0.044	0.018	-0.152	0.056	0.053			
20210213-EMRO-PDI	-0.432	0.378	-0.339	-0.312	-0.519	-0.346	-0.744**	0.695**			
			20210220-F								
20210220-Global-PDI	-0.115	-0.198 <sup>*</sup>	-0.106		-0.117	-0.151	-0.115	-0.102			
20210220-EURO-PDI	-0.004	-0.054	0.025	0.035	-0.039	0.104	-0.008	-0.005			
20210220-AFRO-PDI	-0.643**	-0.691**	-0.400	0.000	-0.656**	-0.702**	-0.650**	0.661**			
20210220-AMRO-PDI	-0.314	-0.158	-0.276	-0.260	-0.242	0.040	-0.234	-0.213			
20210220-WPRO-PDI	0.440	0.476	0.538	0.564	0.324	0.248	0.146	and a start of the second second			
20210220-SEARO-PDI	0.006	-0.337	0.040	0.041	0.018	-0.145	0.061	0.051			
20210220-EMRO-PDI	-0.429	0.375	-0.291	-0.225	-0.523	-0.341	-0.758**	0.738**			

**Figure A12.** Before vaccination areas comparing PDI. \* p < 0.05; \*\* p < 0.01.

Data         Cases - cumulative total per 1 million cases         Cases - cumulative total per 1 million population         Cases - newly reported in last 7 days         Deaths - cumulative ases         Deaths - cumulative deaths           20200222-Global-IDV         -0.076         -0.107         -0.078         -0.088         -0.076         -0.100           20200222-EURO-IDV         0.393**         0.439**         0.220         0.196         0.160         0.160           20200222-AFRO-IDV         na         na         na         na         na           20200222-AMRO-IDV         0.813**         0.650**         0.829**         0.829**         -0.120         -0.120           20200222-SEARO-IDV         -0.175         -0.264         -0.183         -0.213         -0.174         -0.191           20200222-SEARO-IDV         -0.254         -0.310         -0.341         na         na         na	Deaths - newly reported in last 7 days -0.076 na na na -0.174	na
Region         Cumulative _cases         per 1 million population         reported in last 7 days         New_c ases         Cumulative _deaths         per 1 million population           20200222-Global-IDV         -0.076         -0.107         -0.078         -0.088         -0.076         -0.100           20200222-Global-IDV         0.393**         0.439**         0.220         0.196         0.160         0.160           20200222-AFRO-IDV         na         na         na         na         na           20200222-AFRO-IDV         0.813**         0.650**         0.829**         -0.120         -0.120           20200222-WPRO-IDV         -0.175         -0.264         -0.183         -0.213         -0.174         -0.191	reported in last 7 days -0.076 na na na -0.174	deaths
cases         population         last 7 days         ases         deaths         population           20200222-Global-IDV         -0.076         -0.107         -0.078         -0.088         -0.076         -0.100           20200222-Global-IDV         -0.076         -0.107         -0.078         -0.088         -0.076         -0.100           20200222-Global-IDV         0.393**         0.439**         0.220         0.196         0.160         0.160           20200222-AFRO-IDV         na         na         na         na         na         na           20200222-AFRO-IDV         0.813**         0.650**         0.829**         0.829**         -0.120         -0.120           20200222-WPRO-IDV         -0.175         -0.264         -0.183         -0.213         -0.174         -0.191	last 7 days -0.076 na na -0.174	-0.076 na
20200222-Global-IDV         -0.076         -0.107         -0.078         -0.088         -0.076         -0.100           20200222-EURO-IDV         0.393**         0.439**         0.220         0.196         0.160         0.160           20200222-AFRO-IDV         na         na         na         na         na         na           20200222-AFRO-IDV         0.813**         0.650**         0.829**         0.829**         -0.120         -0.120           20200222-WPRO-IDV         -0.175         -0.264         -0.183         -0.213         -0.174         -0.191	na na na -0.174	na
20200222-EURO-IDV         0.393**         0.439**         0.220         0.196         0.160         0.160           20200222-AFRO-IDV         na         na         na         na         na         na         na           20200222-AFRO-IDV         0.813**         0.650**         0.829**         0.829**         -0.120         -0.120           20200222-WPRO-IDV         -0.175         -0.264         -0.183         -0.213         -0.174         -0.191	na na na -0.174	na
20200222-AFRO-IDV         na         na         na         na         na         na           20200222-AMRO-IDV         0.813**         0.650**         0.829**         0.829**         -0.120         -0.120           20200222-WPRO-IDV         -0.175         -0.264         -0.183         -0.213         -0.174         -0.191	na na -0.174	
20200222-AMRO-IDV         0.813**         0.650**         0.829**         0.829**         -0.120         -0.120           20200222-WPRO-IDV         -0.175         -0.264         -0.183         -0.213         -0.174         -0.191	na -0.174	1000
20200222-WPRO-IDV -0.175 -0.264 -0.183 -0.213 -0.174 -0.191	-0.174	na
		na
20200222 SEARO 10V 0.254 0.210 0.241 no.		-0.176
	na	na
20200222-EMRO-IDV 0.199 -0.029 0.267 0.271 0.156 -0.188 20200322-IDV	na	0.313
	0 259**	0.255**
20200322-Global-IDV         0.207*         0.404**         0.424**         0.386**         0.163         0.279**           20200322-EURO-IDV         0.327*         0.386**         0.357*         0.297*         0.240         0.295*	0.259	0.255
20200322-AFRO-IDV 0.327 0.380 0.357 0.247 0.247 0.247 0.0417 0.691** 0.612* 0.107 0.047	0.161	-0.268
20200322-AMRO-IDV 0.646** 0.599** 0.657** 0.627** 0.640** 0.472*	0.664**	0.620**
20200322-WPRO-IDV -0.189 -0.182 0.498 0.432 -0.179 -0.275	-0.217	-0.148
20200322-SEARO-IDV -0.423 -0.228 -0.422 -0.313 -0.482 -0.574	-0.458	-0.414
20200322-EMRO-IDV 0.290 0.141 0.252 0.219 0.313 0.324	0.322	0.314
	**	**
20200422-Global-IDV         0.368**         0.171         0.334**         0.327**         0.437**         0.400**           20200422-EURO-IDV         0.359*         0.014         0.275         0.229         0.420**         0.343*	0.421	0.409**
	<b>0.471</b> ** 0.486	0.465 0.173
	0.480	0.175
20200422-AMRO-IDV         0.655         0.625         0.666         0.674         0.650         0.624           20200422-WPRO-IDV         -0.152         -0.044         -0.096         -0.123         -0.170         0.284	0.129	0.652
20200422-SEARO-IDV 0.211 -0.626 0.283 0.309 -0.083 -0.680	0.093	0.237
20200422-EMRO-IDV 0.200 -0.182 -0.163 -0.188 0.293 0.321	0.181	0.161
20200522-IDV	01202	
20200522-Global-IDV 0.322** 0.251** 0.196* 0.168 0.398** 0.452**	0.231*	0.218*
20200522-EURO-IDV 0.276 0.399** -0.002 -0.003 0.436** 0.517**	0.374*	
20200522-AFRO-IDV 0.734** 0.459 0.808** 0.794** 0.566* 0.344	0.820**	0.819**
20200522-AMRO-IDV 0.657** 0.452* 0.622** 0.554** 0.651** 0.327	0.542**	0.553**
20200522-WPRO-IDV -0.185 -0.134 -0.174 -0.170 -0.152 0.340	0.107	0.101
20200522-SEARO-IDV -0.185 -0.134 -0.174 -0.170 -0.152 0.340	0.107	0.101
20200522-EMRO-IDV -0.133 -0.303 -0.505 - 546* 0.208 0.157 20200622-IDV	-0.175	-0.191
	0.045	0.050
20200622-Global-IDV         0.255**         0.061         0.120         0.136         0.341**         0.375**           20200622-EURO-IDV         0.173         0.155         -0.090         -0.127         0.427**         0.503**	0.043	0.030
20200022-AFRO-IDV 0.791 <sup>**</sup> 0.685 <sup>**</sup> 0.796 <sup>**</sup> 0.784 <sup>**</sup> 0.833 <sup>**</sup> 0.812 <sup>**</sup>	0.815**	0.812**
20200622-AMRO-IDV 0.627 <sup>**</sup> 0.167 0.476 <sup>*</sup> 0.506 <sup>*</sup> 0.612 <sup>**</sup> 0.147	0.280	01011
20200622-WPRO-IDV -0.205 -0.146 -0.076 -0.065 -0.148 0.276	-0.002	-0.059
20200622-SEARO-IDV 0.364 -0.219 0.387 0.402 0.383 -0.248	0.451	
20200622-EMRO-IDV -0.420 -0.314 -0.593 <sup>*</sup> -0.589 <sup>*</sup> 0.021 -0.078	-0.374	-0.277
20200722-IDV		
20200722-Global-IDV 0.227* -0.009 0.193* 0.196* 0.287** 0.251**	0.072	0.073
20200722-EURO-IDV 0.105 -0.116 -0.140 -0.136 0.414** 0.437**	-0.160	-0.124
20200722-AFRO-IDV 0.805** 0.829** 0.807** 0.799** 0.831** 0.871**	0.826**	0.819**
20200722-AMRO-IDV 0.611** 0.125 0.597** 0.621** 0.567** 0.041	0.366	0.390
20200722-WPRO-IDV -0.153 -0.138 0.112 0.095 -0.144 0.217	0.014	X57 25 69671
20200722-SEARO-IDV 0.415 -0.097 0.466 0.462 0.402 -0.159	0.425	
20200722-EMRO-IDV -0.450 -0.335 -0.285 -0.226 -0.016 -0.095	0.094	0.134
	0.005	0.007
20200822-Global-IDV 0.208 <sup>*</sup> -0.042 0.136 0.136 0.248 <sup>**</sup> 0.153	0.083	Contract 200
20200822-EURO-IDV 0.061 -0.225 0.021 -0.048 0.396** 0.359*	-0.196	
20200822-AFRO-IDV 0.804** 0.856** 0.733** 0.673** 0.822** 0.881**	0.797**	0.798**
20200822-AMRO-IDV 0.592** 0.094 0.517* 0.508* 0.538** -0.014	0.389	
20200822-WPRO-IDV -0.042 -0.114 0.027 0.017 -0.090 0.419	0.187	0.082
20200822-SEARO-IDV 0.454 0.136 0.481 0.484 0.430 -0.013	0.458	0.446
20200822-EMRO-IDV -0.366 -0.328 0.138 0.168 0.050 -0.003	0.283	0.300

Figure A13. Cont.

		1	Cases -	Cases -			Deaths -	Deaths -	
	Data		cumulative total	newly			cumulative total	newly	
Region	Dutu	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Region		cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
			F-F	20200922-П	Marcan and	-	FFF		
20200922-Glot	pal-IDV	0.195*	-0.034	0.167	0.171	0.173	0.016	0.114	0.075
20200922-EUR		0.074	-0.204	0.197	0.204	0.335*	0.196	-0.066	
20200922-AFR		0.799**	0.846**	0.702**	0.408	-0.019	0.113	0.788**	0.773**
20200922-AM		0.586**	0.066	0.594**	0.612**	0.524	0.032	0.493	0.403
20200922-WPF		-0.096	-0.102	-0.006	-0.055	-0.125	0.418	0.048	0.050
20200922-SEA		0.468	0.253	0.481	0.476	0.482	0.116	0.447	0.425
20200922-EME	RO-IDV	-0.262	-0.301	0.330	0.4.12	0.116	-0.007	0.346	0.323
	1			20201022-П					
20201022-Glob		0.217*	0.087	0.362**	0.393**	0.219"	0.073	0.227*	0.216*
20201022-EUR	with a state of the	0.172	-0.039	0.386**	0.361	0.353	0.212	0.161	0.210
20201022-AFR	State of the state of	0.794**	0.839**	0.685**	0.702**	0.817**	0.877**	0.790**	0.151
20201022-AM		0.598**	0.088	0.665**	0.659**	0.529**	-0.062	0.596**	$0.535^{**}$
20201022-WPF		-0.024	-0.113	-0.029	-0.025	-0.029	0.353	-0.021	-0.074
20201022-SEA	and a start of the	0.470	0.234	0.467	0.463	0.440	0.054	0.435	0.428
20201022-EME	RO-IDV	-0.116	-0.246	0.525	0.491	0.160	0.250	0.395	0.421
				20201122-П	<b>DV</b>				
20201122-Glob	and the second of the	0.269**	0.250**	0.344**	0.324**	0.242**	0.135	0.389**	0.351**
20201122-EUR		0.265	-0.013	0.288	0.223	0.353*	0.118	0.314*	0.278
20201122-AFR		0.793**	0.839**	0.739**	0.726**	0.816**	0.881**	0.802**	0.499*
20201122-AM		0.625**	0.190	0.658**	0.657**	0.545**	-0.041	0.652**	0.652**
20201122-WPF		-0.021	-0.119	0.042	0.058	-0.026	0.296	0.005	
20201122-SEA		0.468	0.205	0.446	0.451	0.436	0.031	0.403	0.405
20201122-EME	RO-IDV	0.076	-0.161	0.371	0.372	0.231	0.446	0.337	0.378
20201011 01 1	LIDIA	**	**	20201211-II		**	**	**	**
20201211-Glob		0.282	0.282**	0.303**		0.280	0.253	0.351	0.356**
20201211-EUR	STATE OF STATE OF STATE	0.272	-0.043	0.134	0.183	0.350*	0.085	0.259	
20201211-AFR		0.795**	0.837**		0.821**	0.816**	0.878**	0.812**	0.814**
20201211-AM		0.636	0.251	0.656	0.659**	0.589**	0.077	0.652	0.660
20201211-WPF		-0.090	-0.187	-0.065	-0.076	-0.086	0.243	0.021	0.039
20201211-SEA 20201211-EME		0.465	0.185	0.399	0.384	0.430	0.006	0.301	0.283
20201211-EMI	XU-IDV	0.139	-0.115	<u>20201231-Ш</u>		0.231	0.465	0.545	0.545
20201231-Glob	NUTION	· • • • • **	0.040**			0.000**	· · · · · · · · · · · · · · · · · · ·	0.050	0.110
20201231-GIO		0.294** 0.280	0.318** -0.008		0.358**	0.292**	0.035	0.353	0.418
20201231-EOR 20201231-AFR	104021 - 4012 - 241 (S.	and the second second			0.346*	0.347*			0.308*
20201231-AFR 20201231-AM		0.799**	<b>0.816</b> ** 0.290	0.813**		0.815**	0.870**		0.806**
the couple of a second second second second	and the second second	0.642**		0.653**	<b>0.644</b>	0.599** -0.083	0.108	0.648**	<b>0.677</b>
20201231-WPE 20201231-SEA		-0.090 0.461	-0.201 0.188	-0.038		-0.083	0.218	-0.006 0.086	
20201231-SEA 20201231-EME		0.461	-0.070	0.320	0.291	0.422	0.521	0.080	
		0.101	-0.070	<u>20210111-П</u>		0.401	0.521	0.107	V. 4 IV
20210111-Glob	al-IDV	0.301**	0.342**	0.337**		0.299**	0.295**	0.356**	0.316**
20210111-EUR	12000-2219/2	0.299*	0.037	0.383**	and the second se	0.355*	0.052		0.356*
20210111-AFR		0.802**	0.812**	0.816**		0.815**	0.865**	0.811**	4.4
20210111-AM		0.645**	0.309	0.657**		0.605**	0.133	0.643**	
20210111-WPE		-0.084	-0.209		0.026	-0.082	0.199		0.010
20210111-SEA		0.457	0.190		0.165	0.414	-0.067	-0.010	-0.103
20210111-EMI		0.175	-0.031		0.212	0.251	0.546		0.250
				20210121-П					
20210121-Glob	bal-IDV	0.305**	0.354**	0.318**	0.329**	0.306**	0.318**	0.356**	0.343**
20210121-EUR	Construction of the second of the second	0.304*	0.060		0.338*	0.362*	0.084		0.348*
20210121-AFR		0.805**	0.818**	0.821**		0.815**	0.860**	0.809**	
20210121-AM		0.646**	0.320**		0.640**	0.608**	0.146	0.632**	
20210121-WPF	The second second second	-0.077	-0.214		-0.021	-0.077	0.176	0.006	
20210121-SEA		0.452	0.176	0.048		0.406	-0.104		-0.236
20210121-EME		0.187	0.004	0.321	0.392	0.255	0.583*	0.365	
			0.001	0.0.01			0.005	0.000	

Figure A13. Cont.

		Cases -	Cases -			Deaths -	Deaths -				
Data		cumulative total	newly			cumulative total	newly				
Region	Cumulative	per 1 million		New_c	Cumulative	per 1 million	reported in	New_			
	cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths			
	20210130-IDV										
20210130-Global-IDV	0.306**	0.353**	0.298**	0.252**	0.310**	0.328 <sup>**</sup>	0.324**	0.267**			
20210130-EURO-IDV	0.286	0.051	0.272	0.112	0.364*	0.095	0.344*	0.179			
20210130-AFRO-IDV	0.806**	0.818**	0.802**	<b>0.792</b> <sup>**</sup>	0.815**	0.859**	0.814**	0.820**			
20210130-AMRO-IDV	0.646**	0.327	0.647**	0.644**	0.610**	0.158	0.623**	0.620**			
20210130-WPRO-IDV	-0.076	-0.219	-0.060	-0.096	-0.070	0.161	0.025	0.029			
20210130-SEARO-IDV	0.448	0.158	-0.002	-0.059	0.397	-0.138	-0.302	-0.147			
20210130-EMRO-IDV	0.194	0.021	0.270	0.266	0.259	0.614*	0.321	0.347			
			20210213-П	<b>DV</b>							
20210213-Global-IDV	0.307**	0.350**	0.303**	0.294**	0.312**	0.335**	0.305**	$0.280^{**}$			
20210213-EURO-IDV	0.287	0.050	0.299*	0.317*	0.364*	0.111	0.341*	0.338*			
20210213-AFRO-IDV	0.806**	0.821**	0.685**	0.655**	0.815**	0.861**	0.810**	0.803**			
20210213-AMRO-IDV	0.646**	0.335**	0.637**	0.623**	0.611**	0.170	0.608**	0.613**			
20210213-WPRO-IDV	-0.082	-0.225	-0.124	-0.134	-0.059	0.140	0.031	0.047			
20210213-SEARO-IDV	0.442	0.134	0.044		0.387	-0.173	-0.317	-0.338			
20210213-EMRO-IDV	0.199	0.028	0.234	0.231	0.264	0.639*	0.209	0.196			
			20210220-П	<b>DV</b>							
20210220-Global-IDV	0.307**	0.350**	0.303**	0.296**	0.312**	0.340**	0.290**	0.287			
20210220-EURO-IDV	0.288	0.053	0.320*		0.364*	0.115	0.335*	0.342*			
20210220-AFRO-IDV	0.805**	0.819**	0.553*	0.658**	0.815**	0.861**	0.795**	0.808**			
20210220-AMRO-IDV	0.645**	0.337	0.611**		0.611**	0.173		0.592**			
20210220-WPRO-IDV	-0.085	-0.227	-0.136		-0.056	0.134	0.033	-0.027			
20210220-SEARO-IDV	0.439	0.126	0.106		0.382	-0.189	-0.314	-0.247			
20210220-EMRO-IDV	0.200	0.027	0.208	0.203	0.263	0.640*	0.173	0.269			

**Figure A13.** Before vaccination areas comparing IDV. \* p < 0.05; \*\* p < 0.01.

			Cases -	Cases -	1		Deaths -	Deaths -	<u> </u>
	Data		cumulative total	newly			cumulative total	newly	
Region	- Duite	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
		cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
				20200222-M	45				
20200222-Gl		0.100	0.103	0.101		0.100	0.114	0.100	0.099
20200222-EU		0.199	-0.042	0.185	0.173	-0.013	-0.013	na	na
20200222-AH		na	na	na	na	na	na	na	
20200222-AN		0.199	0.083	0.163	0.163	-0.120	-0.120 0.219	na	na
20200222-W 20200222-SE		0.210	0.134	0.203	0.143	-		0.212	0.208
20200222-3E 20200222-EN		-0.162	0.068	-0.139	na -0.279	na -0.150	na 0.105	na na	
20200222-130		-0.240	0.000	20200322-M		-0.150	0.105	110	-0.212
20200322-G1	obal-MAS	0.162	-0.075	0.154	0.128	0.138	0.097	0.104	0.100
20200322-EU	JRO-MAS	0.190	-0.049	0.217	0.171	0.163	0.165	0.156	0.151
20200322-AH		0.351	0.212	0.337	0.146	-0.153	-0.119	-0.179	
20200322-AN		0.197	0.037	0.194	0.189	0.190	0.132	0.192	0.181
20200322-W 20200322-SE		0.184	-0.312 -0.501	0.113 0.187	0.138	0.212	0.007	0.232	0.511
20200322-SE 20200322-EN		-0.263	-0.162	-0.262		-0.266	-0.251	-0.280	
	LU LU IV	0,400		20200422-M			0.401	0.200	0.200
20200422-G1	obal-MAS	0.126	-0.057	0.098	0.102	0.133	0.008	0.121	0.131
20200422-EU		0.177	-0.047	0.091	0.089	0.167	0.058	0.167	0.160
20200422-AH	FRO-MAS	0.296	0.016	0.341	0.462	-0.058	-0.097	0.106	-0.052
20200422-AN	VIEW AND COLOR TRANSPORTATION AND	0.196	0.157	0.202	0.208	0.203	0.225	0.196	0.213
20200422-W		0.284	-0.144	0.269	0.135	0.261	0.237	0.777**	0.830**
20200422-SE		0.629	0.090	0.661	0.655	0.594	0.296	0.674	0.647
20200422-EN	/IRO-MAS	-0.247	-0.035	-0.093	-0.041	-0.273	-0.263	-0.302	-0.296
20200522 01	1.13.64.0	0.110		20200522-MA		0.1.40	0.000	0.100	0.100
20200522-G1 20200522-EU		0.110	-0.003	0.079	0.072	0.140	0.088	0.102	
20200522-BC		0.419	-0.273	0.467	0.477	0.108	-0.384	0.142	
20200522-AN		0.194	0.043	0.173	0.133	0.220	0.132	0.171	0.212
20200522-W		0.299	-0.149	-0.050	0.058	0.365	0.546	0.793**	0.844**
20200522-SE		0.299	-0.149	-0.050	0.058	0.365	0.546	0.793**	0.844**
20200522-EN	/IRO-MAS	-0.173	0.010	-0.059	-0.094	-0.286	-0.361	-0.276	-0.240
20200 (22 01	1 13 64 0	0.000	0.0.10	20200622-MA		0.104	0.010	0.100	0.007
20200622-G1		0.099	-0.040	0.083	0.083	0.136	0.013	0.100	
20200622-EU 20200622-AH	Contraction of the second second	0.056	-0.141 -0.049	-0.083	-0.068	0.156	0.055	0.017	-0.034
20200622-AP		0.471	-0.049	0.408	0.444	0.418	0.043	0.400	0.409
20200622-AI		0.300	-0.150	0.129	0.110	0.220	0.548	0.132	0.122
20200622-SE		0.632	0.679	0.623	0.609	0.574	0.793*	0.529	
20200622-EN	/RO-MAS	-0.072	0.039	0.129	0.129	-0.241	-0.273		0.040
				20200722-MA	45				
20200722-G1	obal-MAS	0.107	-0.020	0.120	0.130	0.137	0.011	0.116	0.137
20200 <b>7</b> 22-EU		0.034	-0.099	-0.033	-0.023		0.055	-0.049	-0.030
20200722-AH	and the second second second	0.439	0.155	0.432	0.450		0.163	0.419	
20200722-AN		0.175	-0.202	0.210		0.221	-0.052	0.195	
20200722-W.		0.378	-0.137	0.428			0.470	0.176	
20200722-SE		0.583	0.770	0.522	0.524		0.804	0.537	
20200722-EN	MKO-MAS	0.029	0.048	0.289 20200822-MA	0.286	-0.146	-0.029	-0.029	-0.073
20200822-G1	obal_MAS	0.113	0.000	0.112		0.139	0.019	0.126	0.123
20200822-GI 20200822-EU	DATABASING TRADE OF SAME	0.113	-0.064	-0.016	0.005	0.139	0.019	-0.060	Septembre des
20200822-EC 20200822-AF		0.023	-0.064 0.216			0.146	0.062	-0.060 0.460	
20200822-AP		0.434	-0.187	<b>0.602</b> * 0.204		0.429	-0.066	0.460	
20200822-AF 20200822-W		0.182	-0.187	0.204	0.191	0.223	0.421	0.213	0.202
20200822-W	CLICKSON SALTISUNDA	0.433		0.503	0.337	0.430		0.516	
20200822-SE 20200822-EN	and the second s	0.337	0.803	0.503	- North New York	-0.110	0.801 <sup>*</sup>	0.316	2002
20200822-EN	AIM-MAS	0.129	0.068	0.525	0.547*	-0.110	0.060	0.114	0.157

Figure A14. Cont.

			Cases -	Cases -			Deaths -	Deaths -	
	Data		cumulative total	newly			cumulative total	newly	
Region	Dutu	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
region		cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
			1 1	20200922-M	IS	_	1 1		
20200922-Glo	obal-MAS	0.114	0.009	0.097	0.094	0.114	-0.042	0.115	0.113
20200922-EU		0.020	-0.019	0.020	0.027	0.165	0.208	-0.040	-0.052
20200922-AF		0.472	0.217	0.555*	0.676**	0.157	-0.257	0.462	0.517*
20200922-AN		0.186	-0.206	0.216	0.210	0.231	-0.153	0.242	0.294
20200922-WI		0.392	-0.076	0.281	0.219	0.435	0.298	0.273	
20200922-SE		0.519	0.745	0.495	0.500	0.226	-0.784	0.515	0.524
20200922-EN	IKU-MAS	0.226	0.094	0.372 20201022-M	0.358	-0.126	0.005	0.023	0.015
20201022-Glo	bal MAS	0.115	0.027	0.139	0.134	0.142	0.038	0.140	0.149
20201022-GK		0.050	0.027	0.152	0.134	0.142	0.036	0.140	
20201022-EC		0.482	0.007	0.575*	0.507*	0.132	0.302	0.100	0.150
20201022-AN	NO ADAM AND AND A DAMA	0.194	-0.196	0.375	0.259	0.430	-0.056	0.454	0.295
20201022-AN		0.194	-0.062	0.244	0.376	0.240	0.341	0.281	0.295
20201022-W1 20201022-SE		0.514	0.626	0.503	0.513	0.528	0.775*	0.523	0.531
20201022-5L 20201022-EN	A CONTRACTOR OF THE PARTY OF TH	0.242	0.020	0.063	0.015	-0.085	0.103	-0.211	-0.236
20201022-1910	11.00 TALE 10	0.444	0.100	20201122-M		-0.000	0.105	-0.211	0.200
20201122-Glo	bal-MAS	0.127	0.054	0.132	0.123	0.149	0.061	0.182*	0.189*
20201122-EU	CARDING SCIENCE STOR	0.135	0.202	0.226	0.195	0.158	0.179	0.249	-
20201122-AF		0.491	0.232	0.488	0.511*	0.446	0.298	0.459	0.519*
20201122-AN		0.204	-0.162	0.213	0.210	0.251	-0.044	0.282	0.287
20201122-WI		0.423	-0.046	0.679*	0.718**	0.440	0.337	0.395	
20201122-SE		0.514	0.514	0.523	0.520	0.530	0.715	0.542	0.561
20201122-EN	IRO-MAS	0.125	0.073	-0.242	-0.241	-0.143	-0.118	-0.299	-0.291
				20201211-M	18				
20201211-Glo	obal-MAS	0.128	0.029	0.106	0.112	0.159	0.106	0.180	0.176
20201211-EU	RO-MAS	0.146	0.170	0.115	0.134	0.184	0.255	0.275	0.259
20201211-AF	RO-MAS	0.491	0.241	0.465	0.406	0.444	0.307	0.421	0.379
20201211-AN	IRO-MAS	0.205	-0.135	0.209	0.209	0.266	0.028	0.269	0.266
20201211-WI	PRO-MAS	0.453	-0.066	0.632*	0.597	0.458	0.328	0.739*	0.770**
20201211-SE		0.516	0.472	0.541	0.560	0.532	0.737	0.582	0.571
20201211-EN	IRO-MAS	0.044	0.022	-0.238	-0.246	-0.166	-0.198	-0.312	-0.311
				20201231-M	15				
20201231-Glo		0.127	0.002	0.115	0.123	0.163	0.097	0.185*	0.196*
20201231-EU		0.145	0.117	0.122	0.162	0.200	0.259	0.257	0.235
20201231-AF		0.483	0.251	0.430	0.405	0.439	0.321	0.408	_
20201231-AN	CONSTRUCT OF A DAMAGE IN FORCE	0.207	-0.108	0.214	0.204	0.268	0.034	0.276	
20201231-WI		0.499	-0.055	V. UUT	0.630	0.502	0.356	0.702*	
20201231-SE		0.518	0.442		0.564	0.536	0.725	0.587	
20201231-EN	IKO-MAS	0.016	0.024		-0.227	-0.178	-0.223	-0.394	-0.400
20210111	1.12000	~ • • • •		20210111-M		~ • • • •			0.10-
20210111-Glo		0.128	0.000	0.130	Sol Science	0.165	0.089	0.188*	
20210111-EU		0.153	0.110		0.201	0.208	0.249	0.271	0.250
20210111-AF		0.474	0.259	0.424	0.390	0.434	0.331	0.401	0.399
20210111-AN 20210111-WI		0.208	-0.098 -0.032	0.211	0.216	0.269	0.039	0.274	
20210111-WI 20210111-SE	Sector Sector States	0.534	-0.032	0.750 0.560	0.766 <sup>**</sup> 0.564	0.537	0.376	0.710 <sup>*</sup> 0.569	0.706 <sup>®</sup>
20210111-SE 20210111-EN		0.005	0.430		-0.163	-0.186	-0.239		-0.446
	Lo attack	0.000	0.010	20210121-M				0.107	
20210121-Glo	obal-MAS	0.128	-0.003	0.124	0.131	0.168	0.090	0 196*	0.222*
20210121 GI		0.153	0.101	0.121	0.133	0.214	0.255	0.252	
20210121-AF		0.470	0.256	0.430	0.421	0.429	0.338	0.403	
20210121-AN		0.209	-0.092	0.222	0.229	0.271	0.042	0.290	
20210121-WI		0.595	-0.011		0.648*	0.560	0.393	0.734*	
	ARO-MAS	0.521	0.416	0.532	0.529	0.543	0.697	0.469	

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Figure A14. Cont.

		Cases -	Cases -			Deaths -	Deaths -		
Data		cumulative total	newly			cumulative total	newly		
Region	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_	
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths	
20210130-MAS									
20210130-Global-MAS	0.127	-0.008	0.114	0.100	0.170	0.092	0.187*	0.151	
20210130-EURO-MAS	0.147	0.089	0.101	0.017	0.217	0.259	0.242	0.137	
20210130-AFRO-MAS	0.470	0.250	0.457	0.486	0.426	0.341	0.399	0.409	
20210130-AMRO-MAS	0.210	-0.089	0.222	0.218	0.273	0.050	0.298	0.285	
20210130-WPRO-MAS	0.608	-0.003	0.527	0.350	0.588	0.420	0.756*	0.781**	
20210130-SEARO-MAS	0.523	0.400	0.511	0.492	0.546	0.681	0.424	0.471	
20210130-EMRO-MAS	-0.011	0.075	-0.151	-0.163	-0.193	-0.195	-0.265	-0.293	
			20210213-M	AS		•	•		
20210213-Global-MAS	0.127	-0.006	0.114	0.113	0.171	0.105	0.180	0.171	
20210213-EURO-MAS	0.145	0.086	0.142	0.149	0.219	0.272	0.245	0.275	
20210213-AFRO-MAS	0.472	0.235	0.523*	0.488	0.425	0.338	0.408	0.401	
20210213-AMRO-MAS	0.210	-0.088	0.202	0.193	0.274	0.057	0.292	0.287	
20210213-WPRO-MAS	0.599	-0.009	0.278	0.232	0.626	0.458	0.768**	0.805**	
20210213-SEARO-MAS	0.525	0.370	0.503	0.507	0.550	0.652	0.399	0.366	
20210213-EMRO-MAS	-0.020	0.079	-0.113	-0.056	-0.194	-0.121	-0.227	-0.174	
			20210220-M	45					
20210220-Global-MAS	0.127	-0.003	0.119	0.122	0.171	0.107	0.171	0.178	
20210220-EURO-MAS	0.146	0.089	0.161	0.159	0.220	0.285	0.261	0.252	
20210220-AFRO-MAS	0.474	0.221	0.557*	0.576*	0.425	0.336	0.436	0.446	
20210220-AMRO-MAS	0.209	-0.090	0.184	0.175	0.274	0.059	0.276	0.271	
20210220-WPRO-MAS	0.592	-0.011	0.275	0.243	0.638*	0.469	0.774**	0.437	
20210220-SEARO-MAS	0.526	0.358	0.524	0.533	0.551	0.636	0.401	0.444	
20210220-EMRO-MAS	-0.021	0.080	-0.046	0.033	-0.195	-0.108	-0.260	-0.247	

**Figure A14.** Before vaccination areas comparing MAS. \* p < 0.05; \*\* p < 0.01.

			Cases -	Cases -			Deaths -	Deaths -	
	Data		cumulative total	newly			cumulative total	newly	
Region	Dum	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Trobiotic		cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
				20200222-U	AI		A		
20200222-Glo	bal-UAI	-0.161	-0.243**	-0.157	-0.139	-0.161	-0.127	-0.161	-0.161
20200222-EU	RO-UAI	-0.101	-0.219	-0.027	-0.002	0.082	0.082	na	na
20200222-AF		na	na	na	na	na	na	na	na
20200222-AN		-0.335	-0.284	-0.352	-0.352	0.143	0.143	na	na
20200222-WF		-0.225	-0.348	-0.201	-0.108	-0.227	-0.263	-0.227	-0.223
20200222-SE		0.579	0.549	0.626	na	na	na	na	na
20200222-EN	1RO-UAI	-0.255	-0.071	-0.294 20200322-U		-0.206	0.209	na	-0.348
20200322-Glo	bol TIAT	-0.101	-0.013	-0,006		-0.041	0.064	0.041	0.058
20200322-GIC 20200322-EU		-0.101	-0.267	-0.000	-0.020	0.041	0.004	0.041	0.038
20200322-EC		0.117	0.013	0.163	0.287	0.516*	0.002	0.516*	0.021
20200322-AN		-0.254	-0.191	-0.260	-0.249	-0.252	-0.368	-0.264	-0.242
20200322-WF	PRO-UAI	-0.174	0.132	0.275	0.064	-0.207	0.108	0.116	0.135
20200322-SE		0.477	0.451	0.492	0.560	0.057	0.138	0.024	0.036
20200322-EN	IRO-UAI	-0.338	-0.178	-0.338		-0.344	-0.354	-0.340	-0.335
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			20200422-U		210217-00			
20200422-Glo		-0.064	0.115	-0.055	-0.052	-0.045	0.097	-0.076	-0.064
20200422-EU	and the second sec	-0.052	0.037	-0.008	0.010	-0.099	-0.055	-0.181	-0.173
20200422-AF		0.261	0.556*	0.235	0.082	0.499*	0.505*	0.392	0.500
20200422-AN 20200422-WF	and the second	-0.257	-0.301	-0.294 -0.244	-0.259	-0.251 -0.179	-0.297 0.226	-0.257 0.500	-0.239
20200422-WF 20200422-SE		-0.162		-0.244 -0.070	-0.332	-0.179	0.226	-0.057	<b>0.579</b> *
20200422-SE		-0.032	0.812 <sup>*</sup> 0.227	0.006	0.058	-0.332	-0.320	-0.299	-0.296
20200422-1510	IKO-UAI	-0.275	0.227	20200522-U		-0.334	-0.320	-0.299	-0.290
20200522-Glo	bal-IIAI	-0.049	0.091	-0.014	0.000	-0.047	0.091	-0.017	-0.020
20200522-GI		-0.007	-0.236	0.112	0.000	-0.128	-0.145	-0.131	-0.169
20200522-AF		0.115	0.602*	-0.055	-0.062	0.354	0.645**	-0.026	
20200522-AN		-0.240	-0.176	-0.223	-0.132	-0.223	-0.096	-0.123	-0.119
20200522-WF	PRO-UAI	-0.257	-0.502	-0.478	-0.406	-0.117	0.287	0.496	0.589
20200522-SE		-0.257	-0.502	-0.478	-0.406	-0.117	0.287	0.496	0.589
20200522-EN	IRO-UAI	-0.055	0.350	0.228	0.186	-0.309	-0.156	-0.168	-0.179
				20200622-U					
20200622-Glo		-0.026	0.135	-0.008		-0.028	0.093	0.036	
20200622-EU		0.050	-0.126	0.154	0.176	-0.123	-0.209	0.048	0.069
20200622-AF		-0.083	0.385	-0.150		-0.064	0.302	-0.075	-0.186
20200622-AN 20200622-WF		-0.191	0.045	-0.130	-0.117	-0.169	0.051	0.053	100 100 C. C.
20200622-WF		-0.312	-0.306		-0.201	-0.098 -0.169	0.262	0.123	-0.046
20200622-3E	Scoutered, Landston	0.093	0.274		0.219	-0.109	0.227	-0.193	
20200022-1510	IKO-UAI	0.007	0.339	20200722-U		-0.210	0.115	0.097	0.133
20200722-Glo	bal-IIAI	-0.040	0.193*		-0.084	-0.014	0.150	0.001	0.008
20200722-GR	CARDINAL CREATER CO.	0.091	0.044		0.250	-0.110	-0.175	0.206	
20200722-AF		-0.137	0.136		-0.136	-0.116	0.143	-0.178	
20200722-AN		-0.180	0.084	5025 SJ (2)	-0.190	-0.127	0.133	0.006	
20200722-WF		-0.262	-0.509	0.062		-0.097	0.167	-0.093	
20200722-SE	ARO-UAI	-0.145	0.194	-0.195	-0.195	-0.178	0.167	-0.197	-0.191
20200722-EM		0.159	0.394	0.268		-0.132	0.224	-0.085	-0.132
				20200822-U	AI				
20200822-Glo	bal-UAI	-0.052	0.245**	-0.070	-0.061	-0.012	0.187*	-0.014	-0.016
20200822-EU	RO-UAI	0.131	0.165	0.223	0.185	-0.092	-0.126	0.309*	0.312*
20200822-AF	and the second second	-0.143	0.030	-0.148	-0.218	-0.143	-0.014	-0.166	
20200822-AN		-0.165	0.121		-0.103	-0.103	0.173	0.008	-0.019
20200822-WF		-0.085	-0.507		0.109	-0.082	0.058	0.034	0.116
20200822-SE	there is construction	-0.184	0.009	-0.213		-0.193	0.058	-0.210	a contraction to the fi
20200822-EM	A STORE AND A S	0.185	0.409	0.208		-0.134	0.182	-0.087	-0.034
20200022-LIV.	IIIO-UAI	0.105	0.709	0.200	0.175	-0.134	0.102	-0.007	-0.054

Figure A15. Cont.

		r	Cases -	Cases -			Deaths -	Deaths -	
	Data		cumulative total	newly			cumulative total	newly	
Region	Data	Cumulative	per 1 million		New_c	Cumulative	per 1 million	reported in	New
Region		cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
				20200922-U					
20200922-Glob	al-UAI	-0.064	0.296**	-0.083	-0.084	-0.024	0.203*	-0.030	-0.029
20200922-EUR		0.153	0.223	0.129	0.114	0.059	0.075	0.272	0.268
20200922-AFR		-0.144	-0.039	-0.170	-0.128	0.171	0.343	-0.155	-0.116
20200922-AM		-0.154	0.136	-0.176	-0.149	-0.090	0.271	-0.022	0.018
20200922-WPE		-0.020	-0.478	0.047	0.009	-0.062	0.013	0.060	0.379
20200922-SEA 20200922-EMF		-0.202	-0.151	-0.224 0.058	-0.223	-0.221	-0.053	-0.216	-0.212
20200922-151011	to-uai	0.203	0.411	20201022-U		-0.104	0.144	-0.174	-0.194
20201022-Glob	al-UAI	-0.058	0.346**	-0.032	0.022	-0.012	0.257**	0.010	0.033
20201022-EUR		0.128	0.207	0.043	0.060	-0.041	0.015	0.184	0.150
20201022-AFR	Statute Statute States	-0.146	-0.062	-0.171	-0.145	-0.145	-0.078	-0.141	0.024
20201022-AM		-0.156	0.119	-0.224	-0.161	-0.083	0.210	-0.069	-0.029
20201022-WPF		-0.012	-0.495	0.053	0.128	-0.031	0.050	0.052	0.031
20201022-SEA	STREET, STREET	-0.209	-0.247	-0.234	-0.231	-0.205	-0.100	-0.219	-0.221
20201022-EMF	RO-UAI	0.150	0.376	-0.169	-0.214	-0.159	0.039	-0.304	-0.310
				20201122-U	AI				
20201122-Glob	al-UAI	-0.048	0.415**	-0.040	-0.036	-0.001	0.343**	0.055	0.030
20201122-EUR	RO-UAI	0.115	0.247	0.097	0.134	0.006	0.164	0.134	0.153
20201122-AFR	O-UAI	-0.142	-0.066	-0.018	-0.035	-0.141	-0.062	-0.123	0.092
20201122-AM	RO-UAI	-0.178	0.120	-0.273	-0.236	-0.089	0.214	-0.176	-0.187
20201122-WPF		0.028	-0.491	0.435	0.457	-0.015	0.051	0.147	0.090
20201122-SEA	I DATE READ - STREET, STREET, STREET, ST	-0.212	-0.277	-0.213	-0.216	-0.208	-0.162	-0.206	
20201122-EMF	RO-UAI	-0.025	0.265	-0.423	-0.421	-0.216	-0.136	-0.361	-0.348
	1		44	20201211-U		0.010			0.04.5
20201211-Glob		-0.050	0.407		-0.042	-0.010	0.412**	0.019	0.015
20201211-EUR		0.110	0.227	0.074	0.023	0.026	0.222	0.126	0.123
20201211-AFR 20201211-AM		-0.139 -0.191	-0.083	-0.149	-0.169	-0.139	-0.073 0.195	-0.155	-0.159
20201211-AM 20201211-WPF	And a failed on the set of the set		-0.485	-0.238	0.582	0.033		2015-212	
20201211-WPF 20201211-SEA	A REAL PROPERTY AND A REAL	0.102	-0.485	-0.204	-0.201	-0.205	0.146 -0.118	0.551	0.693* -0.192
20201211-5EA		-0.212	0.186		-0.435	-0.205	-0.216	-0.180	
20201211111	to orn	0.117	0.100	20201231-U		0.255	0.210	0.501	-0.500
20201231-Glob	al-HAI	-0.053	0.377**	-0.070		-0.007	0.426**	-0.002	0.036
20201231-EUR		0.078	0.144	-0.142		0.032	0.250	0.033	0.040
20201231-AFR	and a contraction of	-0.146	-0.140	-0.186		-0.145	-0.099	-0.180	201 BI 617
20201231-AM	RO-UAI	-0.200	0.033	-0.234	-0.239	-0.136	0.184	-0.196	-0.198
20201231-WPF		0.172	-0.452		0.640*	0.097	0.222	0.770**	
20201231-SEA	RO-UAI	-0.211	-0.303		-0.192	-0.204	-0.112	-0.135	-0.114
20201231-EMF	RO-UAI	-0.153	0.126	-0.481	-0.483	-0.248	-0.259	-0.344	-0.355
				20210111-U	AI		2		
20210111-Glob		-0.056	0.354**		-0.077	-0.010	0.416 <sup>***</sup>	-0.039	-0.050
20210111-EUR		0.044	0.080		-0.183	0.018	0.221		-0.171
20210111-AFR	Connector and Contractor	-0.155	-0.173		-0.211	-0.152	-0.127		-0.208
20210111-AM		-0.205	0.028		-0.227	-0.142	0.175		-0.183
20210111-WPH		0.235	-0.422		0.564	0.150	0.283		0.756*
20210111-SEA		-0.211	-0.321		-0.153	-0.203	-0.114		-0.074
20210111-EMF	to-uai	-0.180	0.062	<u>- 565</u> 20210121-U	-0.525	-0.250	-0.276	-0.208	-0.194
20210121-Glob		-0.056	0.344**		-0.036	-0.012	0.400**	_0.041	-0.027
20210121-Glot 20210121-EUR	And the second second	0.030	0.344	COLOR STATISTICS	-0.036	0.0012	0.402** 0.179		-0.187
20210121-EUR 20210121-AFR		-0.162	-0.189		-0.234	-0.159	-0.150		-0.202
20210121-AM	A DECEMBER OF	-0.102	0.029		-0.196	-0.135	0.177		-0.115
20210121-AM	CLHSSE MIGHTING	0.278	-0.396	0.508		0.145	0.315	0.626	
20210121-W11 20210121-SEA		-0.210	-0.325		-0.142	-0.202	-0.107	-0.053	
20210121-5EA		-0.202	0.007		-0.459	-0.256	-0.325		-0.493
			0.007	0.010		0.200	-0.040		

Figure A15. Cont.

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Region	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			20210130-U	AI				
20210130-Global-UAI	-0.053	0.347**	-0.033	-0.021	-0.013	0.394**	-0.029	0.005
20210130-EURO-UAI	0.037	0.065	0.024	0.199	-0.010	0.159	-0.104	0.140
20210130-AFRO-UAI	-0.166	-0.200	-0.237	-0.299	-0.164	-0.167	-0.204	-0.208
20210130-AMRO-UAI	-0.206	0.030	-0.210	-0.202	-0.147	0.174	-0.172	-0.174
20210130-WPRO-UAI	0.295	-0.378	0.371	0.227	0.221	0.341	0.547	0.629
20210130-SEARO-UAI	-0.210	-0.323	-0.113	-0.090	-0.201	-0.100	-0.028	-0.089
20210130-EMRO-UAI	-0.216	-0.022	-0.425	-0.391	-0.261	-0.376	-0.468	-0.371
			20210213-U	AI				
20210213-Global-UAI	-0.051	0.340**	-0.017	-0.016	-0.013	0.378***	-0.007	-0.022
20210213-EURO-UAI	0.037	0.067	0.039	0.008	-0.017	0.138	-0.060	-0.080
20210213-AFRO-UAI	-0.169	-0.195	-0.227	-0.274	-0.168	-0.174	-0.207	-0.207
20210213-AMRO-UAI	-0.206	0.029	-0.196	-0.182	-0.149	0.173	-0.158	-0.165
20210213-WPRO-UAI	0.295	-0.361	0.172	0.118	0.264	0.367	0.531	0.618
20210213-SEARO-UAI	-0.209	-0.320	-0.139	-0.146	-0.200	-0.092	-0.024	-0.024
20210213-EMRO-UAI	-0.229	-0.045	-0.341	-0.323	-0.273	-0.462	-0.459	-0.446
			20210220-U	AI				
20210220-Global-UAI	-0.050	0.336**	0.000	0.011	-0.012	0.377**	-0.006	0.007
20210220-EURO-UAI	0.038	0.063	0.038	0.016	-0.018	0.130	-0.034	-0.025
20210220-AFRO-UAI	-0.170	-0.191	-0.265	-0.325	-0.169	-0.175	-0.206	-0.228
20210220-AMRO-UAI	-0.206	0.029	-0.171	-0.143	-0.149	0.172	-0.161	-0.136
20210220-WPRO-UAI	0.294	-0.353	0.200	0.154	0.278	0.375	0.537	0.183
20210220-SEARO-UAI	-0.209	-0.320	-0.154	-0.152	-0.199	-0.088	-0.020	-0.052
20210220-EMRO-UAI	-0.231	-0.051	-0.271	-0.191	-0.275	-0.477	-0.431	-0.480

**Figure A15.** Before vaccination areas comparing UAI. \* p < 0.05; \*\* p < 0.01.

N	-1	Cases -	Cases -	r		Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
Region	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
	_00.305	population	20200222-L7		_uouns	population	last / days	deddis
20200222-Global-LTO	0.183	0.247*	0.195	0.233*	0.182	0.186	0.183	0.183
20200222-6100af-LTO	0.094	-0.192	0.023	0.028	0.045	0.045	0.105 na	na
20200222-AFRO-LTO	na	na	na	na	na	na	na	na
20200222-AMRO-LTO		0.384	0.341	0.341	0.078	0.078	na	na
20200222-WPRO-LTO	0.298	0.391	0.321	0.399	0.295	0.296	0.296	0.300
20200222-SEARO-LTC	-0.827	-0.863	-0.795	na	na	na	na	na
20200222-EMRO-LTO	-0.352	-0.371	-0.242	-0.242	-0.193	-0.012	na	-0.242
			20200322-LT	0				
20200322-Global-LTO	0.198*	0.119	0.083	0.061	0.131	0.070	0.054	0.062
20200322-EURO-LTO	0.022	-0.223	0.057	0.015	-0.008	-0.057	-0.002	-0.022
20200322-AFRO-LTO	0.311	0.497	0.287	0.280	0.084	0.100	0.065	0.095
20200322-AMRO-LTO	0.137	0.260	0.152	0.108	0.136	0.079	0.162	0.109
20200322-WPRO-LTO 20200322-SEARO-LTO	0.341	0.446	-0.077	-0.372	0.310	0.549	0.429	0.031
20200322-SEARO-LTO	-0.037	-0.731	-0.093		-0.245	-0.252	-0.249	-0 249
2020022 DMICO-DTO	-0.227	-0.201	20200422-L		-0.210	-0.232	TV.412	0.472
20200422-Global-LTO	0.010	0.151	-0.023		0.032	0.108	-0.022	-0.022
20200422-EURO-LTO	-0.004	-0.018	0.012	0.030	-0.054	-0.164	-0.078	-0.068
20200422-AFRO-LTO	0.128	0.198	0.002	0.110	0.095	0.106	0.159	-0.055
20200422-AMRO-LTO	0.153	0.214	0.165	0.180	0.155	0.182	0.186	0.167
20200422-WPRO-LTO	0.334	0.052	0.182	0.164	0.291	-0.108	0.017	0.247
20200422-SEARO-LTC	_	-0.482	0.390	0.355	0.777	0.663	0.649	0.493
20200422-EMRO-LTO	-0.141	-0.161	0.223	0.243	-0.238	-0.266	-0.169	-0.156
			20200522-LT	01				
20200522-Global-LTO	-0.008	0.130	-0.043	-0.043	-0.020	0.013	-0.068	-0.080
20200522-EURO-LTO	0.084	-0.308*	0.196	0.198	-0.058	-0.282	-0.006	0.014
20200522-AFRO-LTO	0.040	0.243	0.164	0.137	0.122	0.306	0.203	0.201
20200522-AMRO-LTO	0.239	0.380	0.405	0.524	0.257	0.302	0.489	0.469
20200522-WPRO-LTO	0.341	0.094	-0.042	-0.015	0.288	-0.168	0.051	0.304
20200522-SEARO-LTC		0.094	-0.042	-0.015	0.288	-0.168	0.051	0.304
20200522-EMRO-LTO	0.155	0.144	0.466		-0.169	-0.228	0.176	0.243
00000000 01 1 1 1 70		0.070	20200622-L		0.047	0.016	0.007	0.110
20200622-Global-LTO	-0.028	0.079	-0.062	-0.057	-0.047	-0.016	-0.097	-0.119
20200622-EURO-LTO 20200622-AFRO-LTO	0.138	-0.161 0.310	0.222	0.254	-0.044 0.268	-0.271 0.412	0.189	0.137
20200622-AFRO-LTO 20200622-AMRO-LTO		0.310			0.208	0.412		
20200622-AMRO-LTO 20200622-WPRO-LTO	0.392	0.444	0.598 <sup>*</sup> -0.312	<b>0.539</b> <sup>*</sup> -0.336	0.379	-0.203	0.570 <sup>*</sup> -0.264	<b>0.599</b> <sup>*</sup> -0.400
20200622-WPRO-LTO		0.094	0.253		0.209	0.743	0.248	0.253
20200622-SEARO-LTO	0.437	0.221	USD ATTOMATION	0.653		10 C T 1 L T	100 million (100 million)	0.233
DODOGODD HINEKO BIO	0.157	0.200	20200722-LT		0.012	0.121	0.277	0.110
20200722-Global-LTO	-0.050	0.038		-0.080	-0.070	-0.050	-0 119	-0.135
20200722-EURO-LTO	0.164	-0.033	0.199		-0.028	-0.248	0.242	0.188
20200722-AFRO-LTO	0.240	0.365	0.271	0.249	0.279	0.413	0.307	0.311
20200722-AMRO-LTO		0.438	0.378		0.430	0.341	0.519*	0.394
20200722-WPRO-LTO		0.073	-0.367		0.205	-0.320	-0.430	
20200722-SEARO-LTC		0.293	0.223		0.316	0.712	0.297	0.364
20200722-EMRO-LTO	0.481	0.310	0.366		-0.014	-0.075	-0.123	
			20200822-LT	01				
20200822-Global-LTO	-0.056	-0.028	-0.057	-0.050	-0.087	-0.082	-0.115	-0.099
20200822-EURO-LTO	0.145	-0.007	0.113	0.015	-0.014	-0.218	0.223	0.193
20200822-AFRO-LTO	0.249	0.401	0.278	0.305	0.289	0.397	0.297	0.304
20200822-AMRO-LTO		0.343	0.459		0.443	0.297	0.498*	
20200822-WPRO-LTO		0.027	-0.329		0.084	-0.557	-0.456	
20200822-SEARO-LTC		0.342	0.212	0.211	0.284	0.646	0.250	0.269
20200822-5EARO-LTO	0.431	0.257	0.212		-0.060	-0.095	-0.168	
20200022-EIVIRO-L1O	0.431	0.437	0.017	-0.003	-0.000	-0.095	-0.108	-0.104

Figure A16. Cont.

			Cases -	Cases -			Deaths -	Deaths -	<u> </u>
	Data		cumulative total	newly			cumulative total	newly	
Region	Duu	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
		cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
1				20200922-LT	0				
20200922-	Global-LTO	-0.041	-0.048	-0.022	-0.004	-0.100	-0.109	-0.082	-0.059
	EURO-LTO	0.106	-0.027	0.021	-0.004	0.058	-0.073	0.097	0.140
	AFRO-LTO	0.252	0.448	0.242	0.261	-0.002	0.249	0.301	0.308
	AMRO-LTO	0.428	0.268	0.409	0.318	0.452	0.277	0.480	0.379
	WPRO-LTO SEARO-LTO	-0.171 0.224	-0.006	-0.358 0.222	-0.366	0.009	-0.574 -0.101	-0.394 0.276	-0.152 0.310
	EMRO-LTO	0.224	0.300	-0.153		-0.142	-0.101	-0.246	
20200722	Livito Bro	0.551	0.155	20201022-LT	2.2.21	0.112	0.222	0.210	0.210
20201022-	Global-LTO	-0.038	0.009	0.013	0.053	-0.094	-0.104	-0.072	-0.057
20201022-	EURO-LTO	0.074	-0.100	0.036	0.016	0.007	-0.158	0.115	0.106
20201022-	AFRO-LTO	0.251	0.454	0.235	0.233	0.291	0.412	0.289	0.064
20201022-	AMRO-LTO	0.414	0.198	0.253	0.293	0.453	0.265	0.375	0.413
	WPRO-LTO	-0.265	-0.036	-0.398	-0.345	-0.148	-0.576	-0.378	-0.365
20201022-	SEARO-LTO	0.227	0.393	0.245	0.251	0.278	0.640	0.296	0.305
20201022-	EMRO-LTO	0.237	-0.086	-0.353	-0.374	-0.127	-0.197	-0.273	-0.275
				20201122-LT	0				
20201122-	Global-LTO	-0.024	0.191	-0.009	-0.016	-0.085	-0.025	0.006	-0.024
20201122-	EURO-LTO	0.072	-0.039	0.117	0.087	0.016	-0.118	0.046	-0.025
20201122-	AFRO-LTO	0.250	0.453	0.258	0.230	0.291	0.418	0.310	0.233
20201122-	AMRO-LTO	0.363	0.273	0.186	0.216	0.438	0.257	0.280	0.260
	WPRO-LTO	-0.272	-0.065	-0.047	-0.020	-0.184	-0.562	-0.307	-0.323
	SEARO-LTO	0.231	0.424	0.272	0.265	0.285	0.679	0.338	0.447
20201122-	EMRO-LTO	0.051	-0.339	-0.295		-0.171	-0.330	-0.198	-0.248
				20201211-LT					
	Global-LTO	-0.027	0.237*	-0.019		-0.069	0.082	0.019	0.019
	EURO-LTO	0.114	-0.005	0.152	0.172	0.035	-0.096	0.146	0.143
	AFRO-LTO	0.254	0.458	0.284	0.286	0.292	0.414	0.307	0.311
	AMRO-LTO	0.334	0.319	0.213	0.249	0.416	0.377	0.252	0.252
	WPRO-LTO	-0.187	-0.014	0.137	0.186	-0.115	-0.501	0.101	0.343
	SEARO-LTO EMRO-LTO	0.237	0.454 -0.385	0.343	0.360	0.293	0.708 -0.379	0.474	0.501
20201211-	EWIKO-LTO	-0.015	-0.385	20201231-LT		-0.180	-0.379	-0.212	-0.202
20201221	Global-LTO	-0.020	0.050**	-0.013	0.000	-0.052	0.137	0.037	0.134
	EURO-LTO	0.122	0.043	0.135	0.000	0.052	-0.050	0.037	0.134
	AFRO-LTO	0.122	0.043	0.133	0.105	0.030	0.407	0.208	0.223
	AMRO-LTO	0.201	0.471	0.297	0.162	0.293	0.407	0.304	0.260
	WPRO-LTO	-0.144	-0.008	0.211	The second s	-0.080	-0.436	0.200	
	SEARO-LTO	0.244	0.497	0.235		0.307	0.757	0.699	0.758
	EMRO-LTO	-0.035	-0.404		-0.365	-0.176	-0.403	-0.100	-0.186
				20210111-LT	0				
20210111-	Global-LTO	-0.022	0.257*	-0.038	-0.046	-0.049	0.162	0.009	-0.035
	EURO-LTO	0.114	0.028	0.032	0.028	0.067	-0.018	0.170	0.100
20210111-	AFRO-LTO	0.267	0.474	0.295	0.304	0.297	0.407	0.310	0.325
20210111-	AMRO-LTO	0.305	0.209	0.222	0.248	0.396	0.337	0.288	0.295
	WPRO-LTO	-0.103	-0.005	0.263		-0.047	-0.384	0.412	0.460
	SEARO-LTO	0.251	0.532	0.563		0.318	0.792	0.772	0.829
20210111-	EMRO-LTO	-0.052	-0.414	-0.289		-0.177	-0.422	-0.265	-0.253
00010101	011 11 50	0.00		20210121-LT		0.01-		~ ~ ~ ~	0.015
	Global-LTO	-0.024	0.250*	-0.044		-0.045	0.176	0.001	0.018
	EURO-LTO	0.104	0.004	0.017	0.044	0.073	-0.010	0.113	0.088
	AFRO-LTO	0.267	0.480	0.267	0.255	0.297	0.402	0.297	0.294
a contraction of the second states of the	AMRO-LTO	0.300	0.211	0.255	0.321	0.388	0.336	0.288	0.346
	WPRO-LTO	-0.075	-0.012	0.163		-0.036	-0.347	0.190	
	SEARO-LTO	0.258	0.575	0.731	0.731	0.331	0.828	0.860	
20210121-	EMRO-LTO	-0.064	-0.414	-0.252	-0.303	-0.181	-0.453	-0.333	-0.347

Figure A16. Cont.

$\sim$		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Region	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			20210130-L7	01				
20210130-Global-LTO	-0.025	0.244*	-0.045	-0.049	-0.045	0.177	-0.026	-0.039
20210130-EURO-LTO	0.083	-0.017	0.023	0.152	0.074	-0.018	0.089	0.189
20210130-AFRO-LTO	0.265	0.482	0.192	0.197	0.298	0.400	0.299	0.299
20210130-AMRO-LTO	0.299	0.216	0.288	0.321	0.382	0.335	0.289	0.301
20210130-WPRO-LTO	-0.066	-0.024	0.040	-0.063	-0.024	-0.319	0.104	0.217
20210130-SEARO-LTO	0.266	0.613	0.746	0.770	0.344	0.855	0.864	0.839
20210130-EMRO-LTO	-0.073	-0.412	-0.255	-0.259	-0.184	-0.481	-0.277	-0.298
			20210213-L7	0				
20210213-Global-LTO	-0.025	0.247*	-0.027	-0.019	-0.045	0.185	-0.026	-0.037
20210213-EURO-LTO	0.079	-0.015	0.079	0.161	0.073	-0.025	0.104	0.156
20210213-AFRO-LTO	0.259	0.487	-0.002	-0.015	0.297	0.401	0.275	0.266
20210213-AMRO-LTO	0.301	0.230	0.355	0.394	0.376	0.338	0.317	0.317
20210213-WPRO-LTO	-0.074	-0.051	-0.158	-0.227	-0.010	-0.288	0.085	0.244
20210213-SEARO-LTO	0.276	0.661	0.739	0.727	0.359	0.885*	0.865	0.852
20210213-EMRO-LTO	-0.087	-0.409	-0.283	-0.283	-0.189	-0.506	-0.234	-0.332
			20210220-LT	0]				
20210220-Global-LTO	-0.025	0.257*	-0.006	0.012	-0.044	0.186	-0.023	-0.018
20210220-EURO-LTO	0.080	-0.002	0.141	0.183	0.076	-0.014	0.166	0.183
20210220-AFRO-LTO	0.255	0.492	-0.132	0.050	0.295	0.400	0.247	0.276
20210220-AMRO-LTO	0.304	0.239	0.429	0.478	0.374	0.340	0.335	0.400
20210220-WPRO-LTO	-0.077	-0.059	-0.159	-0.205	-0.005	-0.279	0.094	-0.264
20210220-SEARO-LTO	0.279	0.679	0.689	0.702	0.366	0.898*	0.868	0.860
20210220-EMRO-LTO	-0.094	-0.409	-0.278	-0.223	-0.190	-0.509	-0.280	-0.361

**Figure A16.** Before vaccination areas comparing LTO. \* p < 0.05; \*\* p < 0.01.

	ı —	Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Region	Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
	cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
			20200222-IV	<b>VR</b>				
20200222-Global-IVR	-0.097	-0.118	-0.101	-0.112	-0.097	-0.116	-0.097	-0.098
20200222-EURO-IVR	0.100	0.258	-0.052	-0.072	0.070	0.070	na	na
20200222-AFRO-IVR	na	na	na	na	na	na	na	na
20200222-AMRO-IVR	-0.026	-0.026	-0.043		-0.359	-0.359	na	na
20200222-WPRO-IVR 20200222-SEARO-IVR	-0.370	-0.475 0.750	-0.384 0.751	-0.430	-0.369	-0.448	-0.369	-0.371
20200222-SEARO-IVR 20200222-EMRO-IVR	0.717	0.730	0.731	na 0.285	na 0.285	na 0.285	na na	na 0.285
20200222-Eivii(0-1 v K	0.207	0.074	20200322-IV	01200	0.205	0.265	114	0.205
20200322-Global-IVR	-0.061	0.125	0.047	0.045	-0.096	-0.025	-0.041	-0.039
20200322-EURO-IVR	0.086	0.438**	0.099	0.084	-0.015	0.075	-0.005	0.005
20200322-AFRO-IVR	-0.178	-0.475	-0.194	-0.285	-0.431	-0.522	-0.326	-0.529
20200322-AMRO-IVR	-0.028	-0.119	-0.040	-0.022	-0.058	-0.238	-0.061	-0.048
20200322-WPRO-IVR	-0.395	-0.314	0.144	0.340	-0.379	-0.559	-0.453	-0.195
20200322-SEARO-IVR 20200322-EMRO-IVR	0.934	0.858	0.941	0.860	0.289	0.366	0.298	0.173
LOLOUJLE-LIVINO-IVIN	0.270	0.315	20200422-IV		0.217	0.270	0.411	0.214
20200422-Global-IVR	0.094	-0.040	0.112	0.107	0.104	0.056	0.147	0.152
20200422-EURO-IVR	0.174	0.041	0.148	0.119	0.205	0.257	0.286	0.268
20200422-AFRO-IVR	-0.067	-0.325	0.114	0.145	-0.348	-0.423	-0.234	-0.160
20200422-AMRO-IVR	-0.039	-0.124	-0.028	-0.030	-0.041	-0.172	-0.060	-0.035
20200422-WPRO-IVR	-0.373	0.116	0.006	0.019	-0.383	0.128	-0.041	-0.019
20200422-SEARO-IVR	-0.344	0.843	-0.554	-0.571	-0.110	0.388	-0.388	-0.432
20200422-EMRO-IVR	0.280	0.442	0.324	0.392	0.250	0.286	0.143	0.136
			20200522-IV					
20200522-Global-IVR	0.099	0.127	0.085	0.099	0.149	0.143	0.161	
20200522-EURO-IVR 20200522-AFRO-IVR	0.103	<b>0.486</b> ** -0.168	-0.102 0.204	0.235	-0.123	<b>0.408</b> ** -0.307	0.194 0.166	0.176
20200522-AI RO-IVR 20200522-AMRO-IVR	-0.065	-0.270	-0.090	-0.141	-0.058	-0.289	-0.168	-0.091
20200522-WPRO-IVR	-0.361	0.059	0.022	0.007	-0.389	0.203	-0.052	-0.125
20200522-SEARO-IVR	-0.361	0.059	0.022	0.007	-0.389	0.203	-0.052	-0.125
20200522-EMRO-IVR	0.265	0.589	0.184	0.045	0.182	0.284	-0.145	-0.168
			20200622-IV					
20200622-Global-IVR	0.096	0.139	0.086	0.079	0.170	0.191	0.134	0.150
20200622-EURO-IVR	0.020	0.301*	-0.139	-0.170	0.215	0.435**	-0.056	
20200622-AFRO-IVR 20200622-AMRO-IVR	0.205	-0.051	0.199	0.206	0.106	-0.103	0.192	0.116
20200622-AMRO-IVR 20200622-WPRO-IVR	-0.105	-0.282 0.051	-0.108	-0.149	-0.076 -0.390	-0.320 0.147	-0.082 -0.068	-0.121
20200622-WFRO-IVR 20200622-SEARO-IVR	-0.549	-0.933		-0.559	-0.418	-0.728		-0.425
20200622-5E/ RO-IVR	0.029	0.516		-0.223	0.010	0.256		-0.400
Doboodb Linkto Ivit	0.025	0.010	20200722-IV		0.010	0.200	0.105	0.100
20200722-Global-IVR	0.099	0.129		0.093	0.177	0.183	0.142	0.163
20200722-EURO-IVR	-0.026	0.106	0.0 5 5 6	-0.198	0.200	0.397**		-0.198
20200722-AFRO-IVR	0.164	0.030		0.146	0.121	-0.029	0.116	200
20200722-AMRO-IVR	-0.103	-0.307		-0.039	-0.075	-0.327	-0.106	-0.014
20200722-WPRO-IVR	-0.302	0.050		0.000	-0.386	0.070	-0.016	
20200722-SEARO-IVR	-0.507	-0.997**		-0.420	-0.414	-0.745	-0.388	
20200722-EMRO-IVR	0.006	0.484		0.152	-0.044	0.202	0.067	0.102
00000000 01-1-1 1775	0.001	0.179	20200822-IV		0.155	0.100	0.100	0.105
20200822-Global-IVR	0.091	0.157	0.047	Second second	0.177	0.177	0.133	
20200822-EURO-IVR	-0.030	0.042	-0.057	1 1010A0 01	0.183	0.349	-0.242	0.000
20200822-AFRO-IVR	0.152	0.049	0.097		0.121	0.034	0.109	
20200822-AMRO-IVR	-0.109	-0.318		-0.141	-0.077	-0.336	-0.118	
20200822-WPRO-IVR	-0.184	0.048		-0.060	-0.345	0.103	0.080	
20200822-SEARO-IVR	-0.441	-0.918	-0.395	-0.389	-0.401	-0.689	-0.386	
20200822-EMRO-IVR	0.028	0.479	0.027	0.001	0.019	0.229	0.215	0.152

Figure A17. Cont.

		1	Cases -	Cases -			Deaths -	Deaths -	<u> </u>
	Data		cumulative total	newly			cumulative total	newly	
Region		Cumulative	per 1 million	reported in	New c	Cumulative	per 1 million	reported in	New
		cases	population	last 7 days	ases	deaths	population	last 7 days	deaths
				20200922-IV	/R				
20200922-Glo	obal-IVR	0.067	0.150	0.007	-0.012	0.155	0.143	0.075	0.048
20200922-EU		-0.004	0.026	0.065	0.123	0.052	0.176	-0.108	-0.130
20200922-AF		0.146	0.050	0.134	0.002	-0.155	-0.280	0.093	0.055
20200922-AN		-0.115	-0.331	-0.090	-0.127	-0.082	-0.370	-0.096	-0.001
20200922-WF 20200922-SE		-0.273	0.076 -0.760	-0.052 -0.373	-0.115	-0.463	0.282	-0.019 -0.364	-0.156
20200922-3E		0.022	0.458	0.008		-0.053	0.011	0.233	
20200722 Lity.		0.022	0.150	20201022-IV		0.055	0.011	0.235	0.215
20201022-Glo	obal-IVR	0.061	0.110	0.054	0.050	0.163	0.159	0.083	0.093
20201022-EU	RO-IVR	0.052	0.104	0.120	0.144	0.143	0.231	-0.078	-0.055
20201022-AF		0.146	0.057	0.148	0.150	0.117	0.052	0.113	-0.024
20201022-AN	IRO-IVR	-0.111	-0.304	-0.036	-0.065	-0.080	-0.377	-0.054	-0.035
20201022-WF	PRO-IVR	-0.118	0.048	0.021	0.028	-0.236	0.123	-0.026	-0.111
20201022-SE	ARO-IVR	-0.401	-0.680	-0.374	-0.376	-0.384	-0.554	-0.359	-0.362
20201022-EM	IRO-IVR	0.052	0.524	0.208	0.254	0.102	0.336	0.287	0.280
				20201122-IV	/R				
20201122-Glo	obal-IVR	0.060	-0.026	0.061	0.061	0.155	0.104	0.062	0.083
20201122-EU	RO-IVR	0.053	0.086	-0.040	-0.071	0.110	0.151	-0.015	-0.043
20201122-AF	RO-IVR	0.143	0.058	0.037	0.073	0.113	0.044	0.070	-0.118
20201122-AN	IRO-IVR	-0.094	-0.313	-0.023	-0.047	-0.065	-0.362	0.016	0.028
20201122-WF		-0.099	0.063	-0.005	-0.017	-0.213	0.104	-0.048	-0.125
20201122-SE		-0.398	-0.660	-0.388	-0.385	-0.381	-0.526	-0.368	-0.446
20201122-EN	ſRO-IVR	0.154	0.635	0.299	0.228	0.160	0.484	0.243	0.268
	1 1 77 775			20201211-IV					
20201211-Glo		0.059	-0.085	0.084	0.090	0.139	0.053	0.081	0.085
20201211-EU	news intransition of the	0.019		-0.011	0.010	0.081	0.112	-0.077	-0.078
20201211-AF 20201211-AN		0.138	0.057	0.127	0.160	0.110	-0.259	0.104	0.113
20201211-AIX 20201211-WF		-0.087	-0.282	-0.041	-0.049	-0.020	0.107	-0.190	-0.161
20201211-WF		-0.222	-0.670	-0.148	-0.145	-0.348	-0.522	-0.190	-0.287
20201211-5E		0.259	0.465	0.261	0.243	0.175	0.405	0.254	0.227
Doborbiri Lin	110 1111	0.200	0.100	20201231-IV		0.175	0.100	0.201	0.227
20201231-Glo	obal-IVR	0.070	-0.071	0.118	0.107	0.138	0.030	0.114	0.056
20201231-EU		0.035	0.029	0.130	0.143	0.067	0.069	-0.024	-0.018
20201231-AF	and the second second second second	0.138	0.064	0.141	0.149	0.112	0.059	0.124	0.119
20201231-AN		-0.078	-0.229	-0.037	-0.032	-0.015	-0.228	0.041	0.021
20201231-WF	an even of the set of a rate	-0.227	0.028		-0.125	-0.358	0.065	10000 CONTRACTOR (0.000)	-0.308
20201231-SE		-0.395	-0.658		-0.304	-0.376	-0.489		-0.142
20201231-EM	IRO-IVR	0.175	0.574	0.069	0.084	0.166	0.555	-0.140	-0.128
				20210111-IV	/R				
20210111-Glo		0.078	-0.066	0.135		0.141	0.018	0.158	
20210111-EU		0.054	0.047	0.181		0.069	0.048	0.062	
20210111-AF		0.139	0.071		0.130	0.114	0.068	0.124	
20210111-AN		-0.074	-0.221		-0.046	-0.010	-0.202	0.038	
20210111-WF		-0.224	0.034		-0.082	-0.367	0.038		-0.208
20210111-SE. 20210111-EM		-0.393 0.168	-0.642 0.512	-0.243 0.028	-0.218	-0.373	-0.457 0.563		-0.084
20210111-EIV	MAL-DVI	0.108	0.312	20210121-IV		0.138	0.303	-0.231	-0.399
20210121-Glo	bal_IVP	0.083	-0.063	0.143	_	0.144	0.013	0.176	0.205*
20210121-GIC 20210121-EU	Landson Constitution and Landson and	0.083	0.055	0.143	S SACRESS POLICY	0.144	0.013	0.176	
20210121-EU 20210121-AF		0.004	0.033	0.141		0.073	0.030		0.117
20210121-AF		-0.072	-0.224	-0.045		-0.006	-0.186	0.130	
20210121-AIX 20210121-WF	and the second se	-0.072	-0.224 0.046	-0.043	Control Control Control	-0.362	0.013	and the second sec	-0.194
20210121-WF		-0.213	-0.623	-0.043		-0.362	-0.414	-0.213	
20210121-3E		0.164	0.454		0.098	0.152	0.565		-0.272
20210121-EIV.	INC-1 VIX	0.104	0.434	0.029	0.070	0.152	0.505	-0.471	-0.414

Figure A17. Cont.

		Cases -	Cases -			Deaths -	Deaths -	
Data		cumulative total	newly			cumulative total	newly	
Region	Cumulative	per 1 million	reported in	New_c	Cumulative	per 1 million	reported in	New_
	_cases	population	last 7 days	ases	_deaths	population	last 7 days	deaths
			20210130-IV	<b>VR</b>				
20210130-Global-IVR	0.087	-0.063	0.137	0.125	0.149	0.013	0.188	0.168
20210130-EURO-IVR	0.075	0.054	0.081	-0.105	0.078	0.051	0.086	-0.092
20210130-AFRO-IVR	0.147	0.072	0.238	0.254	0.119	0.082	0.135	0.146
20210130-AMRO-IVR	-0.070	-0.229	-0.050	-0.059	0.000	-0.174	0.063	0.052
20210130-WPRO-IVR	-0.201	0.060	0.012	0.073	-0.355	-0.001	-0.183	-0.177
20210130-SEARO-IVR	-0.387	-0.599	-0.042	0.016	-0.365	-0.372	0.140	0.046
20210130-EMRO-IVR	0.163	0.422	0.124	0.150	0.146	0.553	-0.312	-0.371
			20210213-IV	VR 🛛				
20210213-Global-IVR	0.090	-0.077	0.119	0.118	0.152	-0.006	0.183	0.185
20210213-EURO-IVR	0.076	0.035	0.051	0.039	0.081	0.040	0.052	0.029
20210213-AFRO-IVR	0.152	0.068	0.342	0.371	0.121	0.084	0.154	0.160
20210213-AMRO-IVR	-0.071	-0.248	-0.089	-0.105	0.004	-0.169	0.056	0.054
20210213-WPRO-IVR	-0.181	0.081	0.062	0.062	-0.341	-0.012	-0.153	-0.130
20210213-SEARO-IVR	-0.384	-0.564	-0.085	-0.106	-0.360	-0.325	0.156	0.201
20210213-EMRO-IVR	0.167	0.396	0.214	0.187	0.137	0.500	-0.362	-0.328
			20210220-IV	VR				
20210220-Global-IVR	0.090	-0.092	0.102	0.094	0.153	-0.005	0.168	0.170
20210220-EURO-IVR	0.074	0.023	0.021	-0.002	0.079	0.026	0.007	0.001
20210220-AFRO-IVR	0.155	0.066	0.430	0.304	0.123	0.085	0.173	0.156
20210220-AMRO-IVR	-0.072	-0.257	-0.116	-0.138	0.005	-0.168	0.030	01010
20210220-WPRO-IVR	-0.176	0.087	0.030	0.040	-0.335	-0.014	-0.149	-0.127
20210220-SEARO-IVR	-0.382	-0.551	-0.137	-0.126	-0.358	-0.303	0.148	0.110
20210220-EMRO-IVR	0.169	0.387	0.200	0.122	0.133	0.484	-0.312	-0.239

**Figure A17.** Before vaccination areas comparing IVR. \* p < 0.05; \*\* p < 0.01.

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