

Lessons Learned from the Actual USA Response to COVID-19 with Roots in Social Values and Morality, Education and IQ Level

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ABSTRACT

Few days ago USA reached a grim milestone, of reaching over 700,000 deaths, 45 Million people infected from which 7 Million children, and 6 Million COVID “Long Haulers”, being the champions in COVID, because with 4% of world’s population, recording more than 25% of world’s casualties. This undisputable result made the world leery about “American exceptionalism”, in education, social values and leadership, about the capability of its arrogant population, to understand the man-made or nature generated threats and being able to adapt and prevail, making a clear distinction between the protective measures and their fictitious liberties infringements, mentioned in written documents. Many scientists understanding the aerosolized nano-body propagation of SARS-CoV-2, were watching with horror and dismay how they were silenced by uneducated hoards, transforming the pandemic into a political subject, who ignored all the good advice, paying dearly but even after unable to understand and correct themselves. The beauty of US democracy, relies in the fact that every other year the population vote to elect leaders that they do not trust, and the selection is mainly based on speeches and tweets, instead on facts, CV and moral qualities of the candidates. To the government mistrust was added the presidential and main agencies misinformation, which in the race for a vaccine as a “big business”, they forgot the hierarchy of pandemic controls, based on engineered protective systems and praised the vaccine as an ultimate protection and saviour, in fact being weaker and less effective than the engineered systems, but requiring minimal knowledge and thinking from the end users. Looking to understand the causes of this “outstanding” grim result, scientists realized that it is about a complex blending of factors that are pillars of civilization, which were altered over time, in favour of financial gains and masses exploitation, at the heart of an unhinged capitalist system. Basically US put “the Dollar First”, in front of its population life and welfare, supported by a demagogical conservative propaganda unable to realize that freedoms are good only if one is healthy and rich. The deterioration of the national IQ factor, due to an education enforcing memorization and compliance, instead cognitive functions, creating a society where moral values and life models are enforced by Hollywood and social media fake models, with an appetite to alternate realities, lying themselves and other coherently in order to hide the unpleasant realities, is a main factor that have driven to this result. US, on the brink of losing the world leadership position, due to unilateral development of military industrial complex is still unable to connect the dots and understand the best corrections and is pushing a “shock and ore” militaristic doctrine that was proven a failure in the last 50 years, in opposition with a “economic development and cooperation” politics proposed by its opponents with a higher average IQ. In fact analysing the pandemic response and drawing the “lessons learned”, will serve not only the future response to another pandemic, but has a holistic value for planetary actions in the future, facing more serious challenges.

Keywords: SARS-CoV-2; USA, Pandemic control, Aerosols, Nano-bodies, Education, IQ.

1. INTRODUCTION

Prior to 2019 USA was seen as world’s civilization leader based on its welfare (GDP and per capita), [1] its

progress in innovation, education, social and human manners, democracy etc., an example for the world to follow. This was the impression common people from

other countries not involved in direct interaction with US had, as they ignored a 50+ years tradition in CIA failures that triggered American wars with the well-known outcomes, and world policing activities. On these basis the impression of American exceptionalism, especially in science and education was built and many top-notch scientists and students were lured to attend US institutions to accomplish their dream. In parallel the “American dream”, was built, relying mainly on Hollywood and media driven propaganda that lured waves of immigrants in their search for a better life.

1.1. Covid-19 Pandemic Response

By the end of 2019 SARS-CoV-2 erupted and was detected in China, first and by 2020 it spread all over the world, [2] countries having various approaches in response to pandemic, and that made a big difference in the level of casualties and death they were subjected.

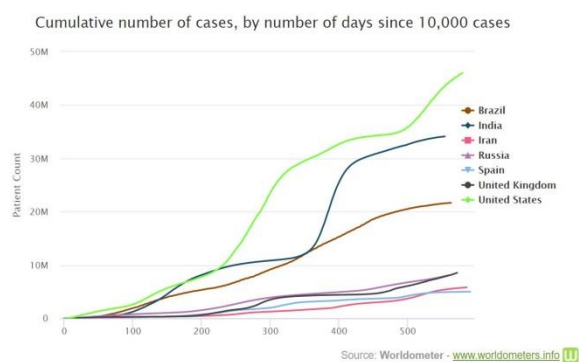


Figure 1 Covid-19 cumulative infections top-7

China, after a period of denial, and searches reacted in a military manner, based on classical knowledge to stop pandemic, and in about 2.5 mo. pandemic was terminated, ending with less than 100,000 people infected and about 5,000 deaths.

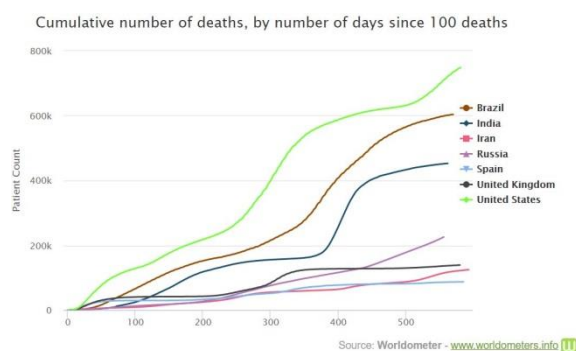


Figure 2 Cumulative deaths by country – top-7

Other countries from western Pacific Rim, as Korea, Singapore, New Zealand, Japan reacted in similar manner successfully controlling the pandemic, first by protective measures followed by vaccination.

In deep contradiction and dismay of scientists familiar with bio-terro and Haz-Mat USA and other countries as Brazil, India, Russia, EU had a despicable response, politicized the subject and paid dearly as Fig. 1 and 2 shows, having a large number of infected people from which 10% became “long-haulers”, and deaths.

As a common feature, most of these countries had a right wing, conservative leaders, with deep disrespect for science and prone to do anything to maintain them in power, with basis made of people for who the beauty of democracy is that every other year they go vote and elect leaders they do not trust.

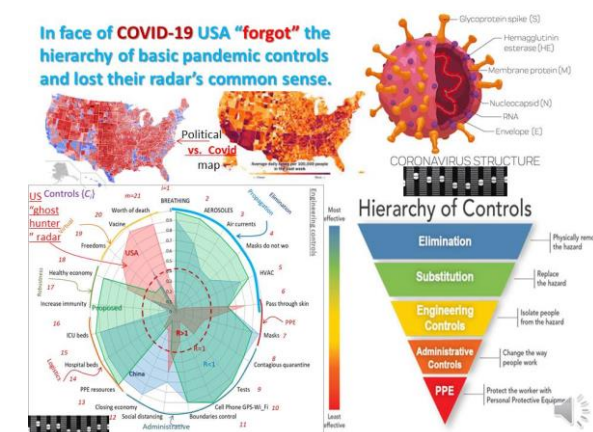


Figure 3 Pandemic control levers and results

In Fig. 3 is shown the similitude between political map with conservative leaning population in red, and Covid-19 infection map with higher level of infection also in red. Underneath is shown a radar representation where each axis, represents a pandemic control lever, and its setting determines the pandemic development rate. In order to control a pandemic common sense shows that there are two main stages: first is the usage of the hierarchy of pandemic controls to prevent population of getting infected, and second is to use vaccination to assure a fail-safe for those who failed and got infected. The radar shows how China set its pandemic control levers, in blue, versus USA in red, who set as levers some fictitious ones with adverse effect, paying a high price, versus some optimal settings in green [3]. That would terminate pandemic in 6 weeks and buy time for vaccine research and manufacturing.

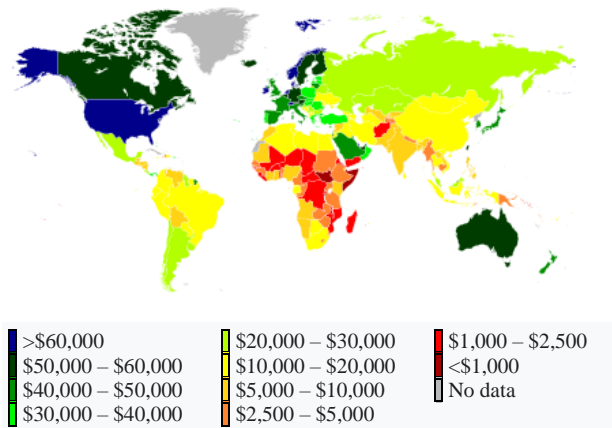


Figure 4 Countries or territories by GDP (PPP) per capita in 2021

Fig. 4 shows the welfare of each nation, where USA and Anglophone countries are on top, up to 2019 USA being the leading economy with a GDP of about \$22T followed by China with \$17M, and EU, and India is ranking 6 with a GDP of about \$5T [4,5].

List by the **Stockholm International Peace Research Institute**
2015 Fact Sheet (for 2014)^[1]

Rank	Country	Spending (\$ Bn.)	% of GDP
—	World total	1,776.0	2.3
1	United States	610.0	3.5
2	China ^[a]	216.0	2.1
3	Russia ^[a]	84.5	4.5
4	Saudi Arabia ^[b]	80.8	10.4
5	France	62.3	2.2
6	United Kingdom	60.5	2.2
7	India	50.0	2.4
8	Germany ^[a]	46.5	1.2
9	Japan	45.8	1.0
10	South Korea	36.7	2.6
11	Brazil	31.7	1.4
12	Italy	30.9	1.5
13	Australia	25.4	1.8
14	United Arab Emirates ^[a]	22.8	5.1
15	Turkey	22.6	2.2

Figure 5 Military expenses by nation – top 15

Corroborating these data, on one hand we see that US is the leader in economy, and military and praises itself for the best education and healthcare, but statistics show that it is the most expensive while the results are average. The precarious response to Covid-19 made the world leery on US exceptionalism, and its real leadership position, and look in depth to find and understand the causes behind this grim reality.

2. ANALYSIS OF THE IQ RELEVANCE

Downloading the data with Average IQ of various nations and representing the infection rate as a function

of IQ as shown in Fig. 6 we obtained a strange result [6].

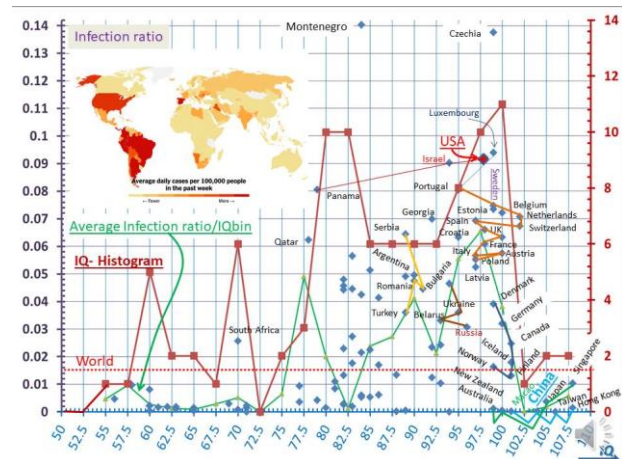


Figure 6 Infection rate [%] as function of IQ

As IQ test was conceived is not reflecting the capability of a nation to adapt to nature challenges or man-made disasters and prevail, except for those with $IQ > 100$, which happened to be the Asian nations from the western Pacific Rim which obtained a low infection rate, and were successful in controlling pandemic [7].

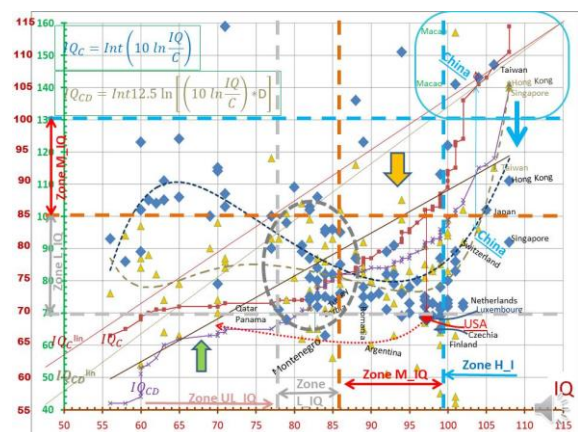


Figure 7 IQ factor corrected for Infection rate and population density

We corrected the IQ using Equations in Fig.7 and plotted the new IQ_c with blue diamonds, and IQ_{cd} with orange triangles, and we split the IQ range in 4 classes, or “zones”. It is observed that the very smart nations with $IQ > 100$ downgrade a little bit but remain in the very smart zone, for example China downgrades from 104.5 to about 100. The zone with medium IQ, from $100 > IQ > 85$, are downgraded massively, and USA from 98 is falling at about 68. The low IQ countries remain in about same place while ultra-low IQ countries upgrade one zone to low IQ. It becomes obvious as IQ as conceived today is not reliable as was customized on Caucasian culture, that fitted well with Asian countries. Because IQ fine spectrum is unknown [8] we have approximated it with a Gaussian, and scaled

proportional with population. China's IQ is with blue, centred at 104.5 and US is in red centred at 98. It is observed that No. of Chinese with $IQ > 120$ overpass US population, and in order to have a leading edge, US has to move the average IQ maximum at 135, but that is impossible considering the "real" IQ that was downgraded at about 68 as red dotted curve shows, and that is a "Point of NO Return". More if we take a look inside the fine structure of US IQ we observe a lenticular composition split by "political tribalism", where the TR represents the GOT (gang of Trump), mainly comprising poor uneducated segments of population frustrated by their social status, easy to mislead, by alternate realities, with $IQ_{avg} = 56$, then RINOs, is left over from GOP (Grand Old Parties) with higher $IQ \approx 86$ who maintained their principia, democrats with $IQ \approx 85$, and independents $IQ \approx 90$. The problem is to understand how was possible to reach this situation, but was clear from the Covid-19 pandemic challenge that American minds are not "cabled" to understand fine aspects of science with very few exceptions, as they failed to understand aerosolized pandemic propagation and wrongly considered vaccine as ultimate saviour [9].

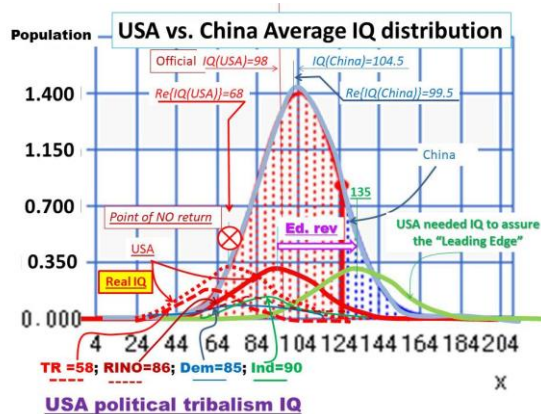


Figure 8 Compared IQ of USA and China

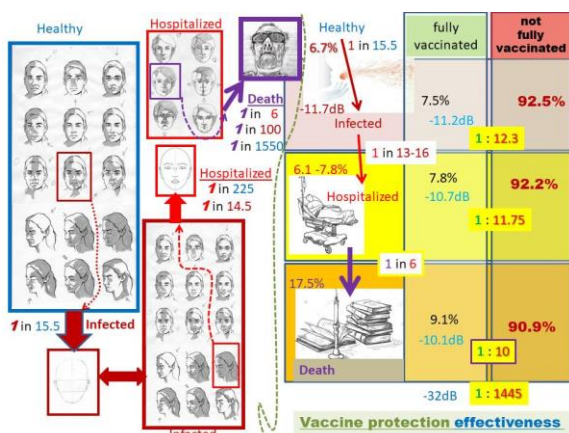


Figure 9 Vaccine shielding factor estimation

Using NY state data we plotted Fig. 9 where comparative rates of having an incident as getting

infected with symptoms, hospitalized or dead have been processed, and we learned that from a number of people exposed only 1 in 12 get symptoms and was declared sick. For the record I have to mention that anybody inhaling covid virioli aerosols is infected and how each body deals with it depends on its immune system. The values in dB are attached, and the protection factor of vaccine against death is about -32dB.

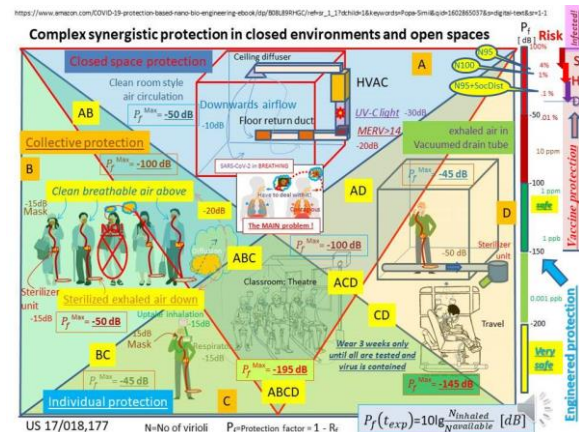


Figure 10 Engineered protective systems

In fact the push for vaccine, and all misinformation related to this, was because vaccine is a "BIG business" for only a selected, most preferred few companies, and is applied on uneducated masses who may not be knowledgeable but all they have to do is to sit and take the shot, then do what they do, get infected and protected by vaccine's action. The Engineered protective systems as shown in Fig.10, is more complex, is redundant and delivers orders of magnitude higher protection preventing the subject of being infected in the first place. Smart countries used it together with vaccine as a passive fail safe system, and those who failed to protect were defended by vaccine preventing them from a bad outcome. That requires superior knowledge. In Fig. 10 one may see that there are 4 independent protection systems, that may be used in any combination in order to assure the reasonably desired protection. One needs to understand that aerosols with all their content float in air for weeks, and may be inhaled any time, therefore buildings have to control the inside air currents and sanitize the air using anti-bacteriologic filters and ionizing radiation (UVC) and may provide a protection factor up to -50dB. Than individual masks may assure what is called "community mutual protection", and also "individual protection when acts as a filter, and are enhanced for virioli sterilization. The add-on drain system provides supplementary protection and environment protection preventing it from acting as a virus buffer. When used together the protection factor may be as high as -200 dB, well above vaccination, but vaccine adds to it and is a failsafe measure. This is what most of the world failed to understand except few

countries, and wonder why, US the first economy had such a bad approach, that made it lose the leadership.

4. POSSIBLE FAILURE CAUSES ANALYSIS

In Fig 8 we showed the IQ as a potential factor, but the process is more complicated and we need to understand what made possible this degradation. In order to understand that we need to identify the eigenvectors of society responsible for this “involution” [10].

4.1. Education

Education in the USA is a very hot subject many want to change it but in fact they are shy spelling out its failures, and changes become superficial, mainly as a new manager dismantles almost everything the predecessor did good or bad, as one may easily see at White House level; same pattern, that produces a cyclic rotation and dizziness with high spending [11].

From OECD PISA test ranking we learn that US Ranks 25, as one may see in Fig. 11, with an yearly spending of \$17k, that worth as much a \$5k Czech Republic is spending. Of course this goes to many useless activities and gives a financial efficiency of 50% probably because of low level of teachers' preparedness and lack of interest from the students that have other priorities than learning. On the other hand quoted as the first and overpraised the education in the USA is very superficial based on learn by heart, recite for a grade and forget immediately after.

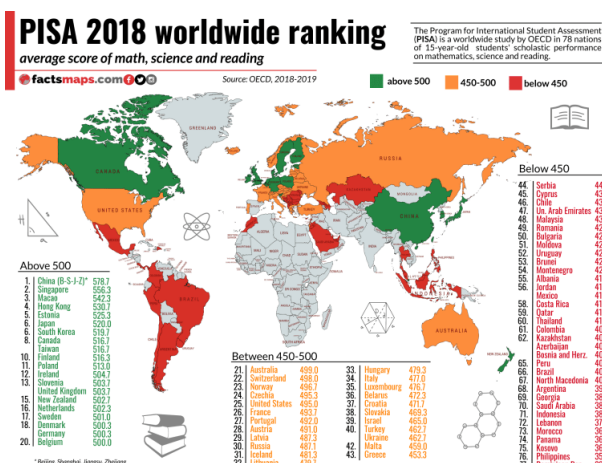


Figure 11 OECD-PISA Ranking by country

The Investment in education by country showed in Fig.12 that China spends 3 times less for being the first, showing that the efficiency of \$1 invested in US education is just 1 quarter, and that is worrisome, because shows that the “No return point” is real and hard to recover from, because 75% of investment is lost.

The difficulty of recovering is further aggravated by the evolution in science and technology, and the overlap that appears between traditional branches of science, for example biology and engineering, requiring future scientists have larger horizons and old narrow niche specialization and obedience formed in schools aimed to prepare personnel for industrial and agricultural repetitive jobs is outdated. This applies a supplementary stress on education system that on one way needs to simplify and teach fundamental knowledge the student have to remember for life, and on other hand it needs to increase the amount of such information in order to prepare students able to have a fruitful college life and becoming top scientists. In Fig. 13 is presented how the “back” of a student launched successfully in a college has to look like, accumulating fro school all these types of knowledge that will prove very usefull to advance the college curriculum and specialize in a field of interest using the time to acquire novel specialized knowledge.

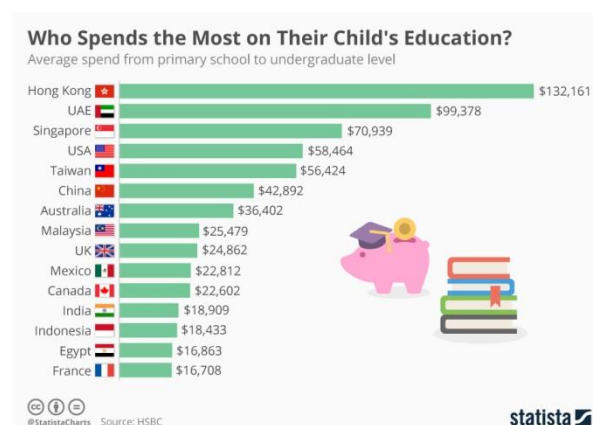


Figure 12 Education spending top-15 countries

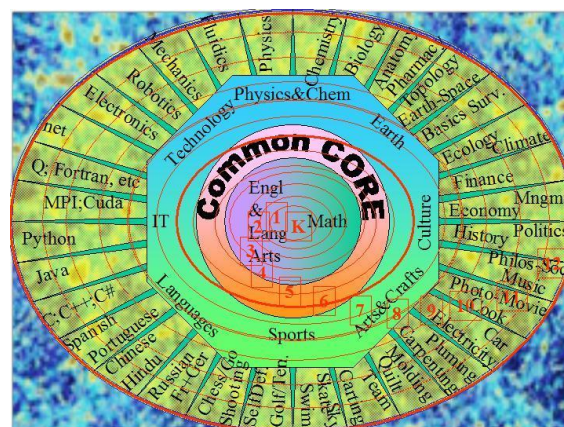


Figure 13 HS graduate student knowledge

In the present context the actual Biden administration initiative that initially allocated \$700B for education is too little too late, representing about \$2k/student, unable to boost the IQ too much, and we might expect a 10 points increase in about 5 years, placing US IQ at about 80, but way far from the goal.

4.2. Social Manners, Morale and Values

We learned that education is not a pure eigen-vector, because other “dimensions” of the social space have projections on it, and it also has projections on them, looking like a curled space. One element education is suffering from is the absence of life models to follow that to promote respect for good work, knowledge and preparedness. In exchange they promote by Hollywood and mass media the model of successful American who is rich, with large appetite for consuming stuff, and who does not know too much but he can, and wing it [12].

Morale is often referenced by authority figures as a generic value judgment of the willpower, obedience, and self-discipline of a group tasked with performing duties assigned by a superior. According to Alexander H. Leighton, “morale is the capacity of a group of people to pull together persistently and consistently in pursuit of a common purpose” [13].

Value judgment refers to a judgment based upon a particular set of values or on a particular value system, but usually it is an expedient evaluation based upon limited information at hand, where said evaluation was undertaken because a decision had to be made on short notice.

In ethics, value denotes the degree of importance of some thing or action, with the aim of determining what actions are best to do or what way is best to live (normative ethics), or to describe the significance of different actions. Value systems are prospective and prescriptive beliefs; they affect ethical behaviour of a person or are the basis of their intentional activities. Often primary values are strong and secondary values are suitable for changes. What makes an action valuable may in turn depend on the ethical values of the objects it increases, decreases or alters. An object with “ethic value” may be termed an “ethic or philosophic good”.



Figure 14 USA set of values – top 15 [14]

The values a population care about most are the only accurate indicator of who people are, and why they do

the things they do, if the values are accurately measured. In order to understand foreign and domestic issues, engage in target marketing, or build consumer profiles, knowing the exact values that trigger behaviour for any group of people is a strategic essential, where behavioural analysis was promoted by banks with the massive support if IT social media companies as Facebook, Google, etc., who provide the big data, and launch “data driven discoveries”, affecting many lives.

As one may see in Fig. 14 these are the values for US, but are they accurate? It depends of what echelon of society was addressed, because for example patriotism weight is lower for business than for GOT people, and for many loyalty and family in sense of “casa nostra”, matters the most. In this point making a statement is dangerous because US is a lenticular-tribal society, and what is true for a segment id false for the rest, and one may see this in the divisions occurred inside the ex-republican party, where only a few decided to stay with their values, right of wrong, while 90% joined GOT and its immersion in alternate realities and falsehoods. In fact Trump and Covid forced US to show its real face.

Rest of the world cares more about “Financial Security” while it is less important in the U.S. – likely because wealth, or the promise of wealth, is part of the work hard/get ahead ethic of the American Dream, that proved to be a falsehood and during Covid-19 pandemic, US people put “Dollar First”, making the writing on \$100 bill “we trust in GOD”, to look like having a typo being more about “Gold” than “god”.

Another issue which recently appeared in the lime light is the attitude towards truth, and it seems that it become Anti-American, and that has become a threat for future and national security. This attitude is more intense at religious people, more inclined to believe without questioning, and little permanent, pleasant lies become a custom in many American families, therefore when you look at Fig. 14 is obvious that error margin is missing and it covers values with very large dispersion and variation in time. This fluffy set of values became visible in the radar of pandemic controls, Fig.3, where delusional constitutional freedoms were exacerbated, ignoring the fact that they are not applicable to dead or ill people, driving to the results shown in Figs. 1,2. More, putting “dollar first”, in the name of a healthy economy, another falsehood, because with sick people there is no healthy economy, and ignoring the threat the only economic effect of covid death was the cost avoidance on Medicare and social security because the old and sick people were more prone to death, and their early disappearance prevented them for inducing further expenses. The fact that 10% from the 45 Million infected become “long-haulers”, drove to the actual economy shortages, and low employment rate.

5. CONCLUSIONS

The trend in the USA shows that world leadership position is almost lost for ever, and US if likes it or not will better adapt to a multipolar world, both by the force of smart example and by military might.

5.1. Education

This is a list of measures aiming at correcting the education first applied to younger generation first simultaneously with measures applied for adult society:

a) Extend the education from day-care for toddlers to college, where to be in a kindergarten regime, that to foster respect for science and knowledge, as recently Biden administration proposed.

b) Synchronize the knowledge gradual approach, by synchronizing reading and cognitive capabilities with the ability to learn and digest science, starting from basis and experiments and gradually reaching advanced theory supported by math. Learning practical basic skills to do with their hands will be most recommended.

c) Start training and retraining of the teachers, and create incentives for them to accept the knowledge.

d) Leave grades and results in public domain, and stir the competition for best places inside class and among classes, creating an after-hours education for those with bad results, as to provide them with supplementary explanations, as to understand and advance gradually in complexity.

e) Make homogeneous classes selecting after education level, as to be possible to help advanced students learn more, while the weak students learn what is right for their level as to understand and master it, following variable paths for ending high school, from 12 years to 15-16 years, but remain assured that after that period they master equally well the HS subjects and are ready for college.

f) Instauration of boarding schools for poor and weak students where to spend almost the entire week in a controlled environment that to expose them to learning alternated with sport activities and recreational activities, under careful supervision.

g) Develop affection versus learning and performance; stimulate their creative thinking and innovation, involving them in afterhour's creative activities and sports.

h) Society has to debunk the alternate realities and misinformation promoted via internet, media outlets political channels, introducing responsibility and penalties for lies and misinformation. Stress for character and right morale of society, truths and right set of values.

5.2. Military and International Politics

The "shock and Ore" policy have to be changed, with a stronger use of military facilities for aiding the countries in trouble from nature inflicted disasters, backed by strong economic development support helping the creation of healthy honest democracies. The defence budget has to be redesign to cover advance research and first aid missions and less multiplication of destructive chemical and nuclear weaponry, as to meet novel planetary challenges as global warming, asteroid threat, and earthquakes.

Remaining focused on cooperation, and fare trade, noninterventionist policies, and mutual help will bring more than previously empty diplomacy and luring nations into chaos. Keeping promises and international treaties will be a plus. The use of monetary supremacy to punish competition and oponents is a practice that will backfire soon, world developing alternative financial routes. Meanwhile China and India the most populous countries will take economic and scientific leadership, as soon as they succeed to rise their intellectual and manufacturing power, and only by an exceptional education, for real, USA may maintain the leadership, but in actual conjuncture it is not realistic.

There is no single solution for education advancement, but one has to consider the deep interconnection between education and social and moral values of a society, their aspirations and concept of good, welfare and integration with the planetary conditions and environment. US will naturally fail in the 4th position after China, EU and India in the next 10 years, and will have to get used with that without inflicting self-harm.

5.3. Social Ethics and Morale

The ethics have to change, Americans have to stop lying to themselves, as they are the best and brightest, to dismiss and discount what they do not know, and to take real steps to correct the situation.

They will have to put tenacious work and science excellence first and give up alternate realities and pretended exceptionalism that did not pass Covid pandemic scrutiny.

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