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Abstract

Index terms—

of them are deprived of essential health services, according to WHO (Yoshizu, 2017) (Figure 2). The planet earth is probably seeing its worst days after civilization has started as climate (Carrington, 2022) and economic crisis (Georgieva, 2022), along with global conflicts (Xia et al., 2022) are reaching their top. When viewed from the perspective of humanity, wars and invasions are always disastrous for both combatants and war victims—especially women, the injured, children of all ages, the elderly, the functionally disabled, and the refugees. The present study aims to bring and correlate the effects of pandemic, conflict and climate issues over the world economy and interconnect them with victims and future public health (Figure 1).

1 IV. A BRIEF REVIEW OF PRESENT GLOBAL SITUATION

A. Climate Issues over Public Health About 7.6 billion people—or 96% of humanity have experienced a global warming effect on temperature in the past 12 months. The World Bank says, more than 1 billion people could be displaced globally by 2050 due to climate change and natural disasters (Henley, 2020) (Figure 3).

And more than five million extra deaths a year can be attributed to the disease burden associated with climate change, which is at least 30 times higher compared to 20 years ago (Zhao et al., 2021) (Figure 3). In those years, the lion's share (more than 96%) of disaster-related deaths had taken place mainly in developing countries (Kirigia et al., 2004), which has greatly shifted across 19 countries in North America, Europe, and the Asia-Pacific region that label global climate change as a major threat (Smart, 2022). Global warming is influencing weather patterns, causing heat waves, heavy rainfall, droughts, cyclones, and wildfires (Zamir, 2021). According to the Centre for Research on the Epidemiology of Disasters, Brussels (CRED), floods, storms, and draughts caused losses to the global economy of more than \$224 billion in 2021 and could cost \$5.6 trillion by 2050 (Dickie, August 2022) (Figure 3). Less than 3% of the earth's water is fresh water that can be used for daily necessities or agricultural use, and less than half of it can be used for drinking ??Albert et constitutes 81% of the world's workforce, were affected by the lockdown, and the world incurred a loss of 9% of global working hours, followed by 4.4% of the global GDP in lost labor incomes (Moyer et al., 2022). Economically and socially disadvantaged populations were twice as likely to present with COVID-19 symptoms to the emergency department and were more likely to require re-hospitalization within 30 days of discharge (Tuczy?ska et al., 2022). During the pandemic, child marriage, gender-based or domestic violence increased; routine health services were jeopardized; and routine vaccinations were halted for 80 million children in 70 countries (Dhaliwal et al., 2022) (Figure 4).

2 C. Man-Made Catastrophes

Major oil companies don't disclose the huge amount of greenhouse gases their oil fields emit—BP, Eni, ExxonMobil, Chevron, and Shell emit millions of tons of gas from their oil fields (Stallard et al., 2022). According to the World Wildlife Fund (WWF), as a result of deforestation and ocean pollution, the world's wildlife populations have decreased by more than two-thirds since 1970 (Dickie, October 2022). Man-made catastrophes like mountain destruction, deforestation, and pollution not only hamper food, fuel, and habitat but also cause the spread of acute infections (Reddington et al., 2021; Zimmer, 2019), chronic conditions (Beyer, 2022) and communicable diseases (Rainforest Foundation Norway, n.d.). For example, cardiovascular disease accounts for more than 60% of pollution-related disease and death (Münzel et al., 2022); each kilometer square of Brazilian Amazon deforestation results in 27 new malaria cases (Chaves et al., 2018). This is particularly important as, from California to Germany

46 and China, droughts have shrunk the rivers that drive huge hydroelectric plants (Bloomberg News, October 2022).
47 As global energy supplies tightened last year, India (Varadhan, 2022), China (Chen, 2022), Australia (Mandavia,
48 2022), and many European Union London Journal of Research in Management and Business countries (Dvorak
49 & Hirtenstein, 2022) increased their reliance on coal-fired power-along with the Russia-Ukraine conflict (Figure
50 4). ??), making this the fastest-growing refugee crisis since World War II. Over 90% of the fleeing population
51 were women and children, including unaccompanied minors. Children account for 40% of the refugee population
52 (Figure ??). Hundreds of thousands of people are still trapped and faced with a shortage of food, water, and
53 medicines (Kumar et al., 2022). Depression, social withdrawal, and anxiety are just a few of the long-term
54 psychological and physical health repercussions that will afflict subsequent civilizations (Dhawan et al., 2022). In
55 Ukraine, close to 3 million people with disabilities are registered, facing a greater risk of abandonment, violence,
56 and death, while their access to safety and recovery support is limited (United Nations, 2022; Casey, 2022)
57 (Figure ??). The correlation between low vaccination and Russian aggression is still a question, as Ukraine was
58 the second lowest (15%) vaccinated country after Armenia in Europe until the end of October, 2021 (AP, 2021)
59 Thousands of tons of sulfur dioxide and smoke poisoned the air, driving up respiratory illnesses, damaging crops,
60 and causing four times more deaths per capita than the five cleanest countries altogether (Popov et al., 2020).
61 Moreover, most of the energy used for agricultural production, including fuels, electricity, fertilizers, pesticides,
62 and lubricants, is reallocated for military use (Nchasi et al., 2022). The occupiers have so far attacked more than
63 800 health care facilities; at least hundreds of them were completely damaged (?????, 2022) (Figure 7). At least
64 three major oxygen plants in Ukraine have been damaged, making treatment uncertain for approximately 2,000
65 people requiring high oxygen flow (Howard, 2022) (Figure 7). Until the 1st week of December 2022, a quarter
66 of its population was facing power shortages and blackouts amid strong winds, rain, and sub-zero temperatures,
67 along with half of its capital Kyiv, for days ??Guy et (Kay & Makol, 2022). Close to 40% of antibiotic APIs used
68 in the US are sourced from China, where they are typically 35%-40% less expensive than competitors ??Sadek,
69 2022).

70 In present years, China has increased economic, military, and political competition with the US, as depicted
71 in numerous official documents and statements (Papageorgiou & de Melo, 2022). The trade war and escalating
72 tariffs could raise manufacturing costs for generics and biosimilars in the US (Zha, 2021). However, the trade
73 war has opened up India's opportunity to export APIs. Currently, more than half of the 342 manufacturing
74 facilities worldwide with more than ten active US-approved API products are located in India (Jimenez, 2022).
75 And very recently, a bill "H.R.7121(IH)-Protecting our Pharmaceutical Supply Chain from China Act of 2022"
76 is introduced in the U.S (Authenticated US Government Information, 2022).

77 The 2,100-mile long India-China border has long been a source of contention between New Delhi and Beijing
78 (Sud & McCarthy, 2022). Border tensions and the pandemic have jeopardized the supply of drugs and food
79 between these two countries (Chatterjee, 2020; Sharma, 2020; Guerin & Strub-Wourgaft, 2020). However, to
80 reduce Chinese API dependency, India launched a government-backed Production Linked Incentive (PLI), as
81 India's \$42 billion pharmaceutical sector is heavily dependent on China for API (Buddhavarapu, 2022).

82 A military confrontation between China and Japan has come into being for the first time since the end of
83 World War II. After the Diaoyu Islands crises of 2010 and 2012, Japan began to regard China as a main security
84 threat (Zhang, 2021). They have economic relations and cultural exchange but Japan was a pioneer in creating
85 the concept of both the QUAD and the Indo-Pacific area (Cannon & Rossiter, 2022). The volume of trade
86 between Japan and China shrank in 2019 due to China-US trade frictions (Wang, 2022). Japan, the largest
87 pharmaceutical importer in the world, obtains the majority of its supplies from India, the United Kingdom, and
88 Italy. In light of growing concerns about dependence on China around the world, the Japanese government plans
89 to increase domestic pharmaceutical production (Kokumo, 2020).

90 Taiwan, missiles, and spying remain China's top priorities in the new Xi administration, as spread in many US
91 news media (Shepherd & Wu, 2022). Despite this, President Xi has stated that China is looking for ways to "get
92 along" with America, even as tensions rise (Tang, 2022). However, Taiwan tensions have raised concerns about
93 the safety of undersea cables around the world (Heijmans et al., 2022), as well as the semiconductor industry. In
94 the midst of the US tech war, TSMC (the largest chip foundry with some big clients like Apple, Intel, Qualcomm,
95 AMD, and Nvidia, based in Hsinchu Science Park, Taiwan) is under increasing threat from China (Wintermeyer,
96 2022). Furthermore, Taiwan is home to more than 90% of the world's advanced semiconductor manufacturing
97 capacity (Cheng, 2022). Semiconductors are widely used in highperformance computer chips, medical equipment,
98 drug delivery systems (implants) and in-vitro diagnostic devices, among other things (Sutradhar & Sumi, 2014).
99 Therefore, China has blocked imports of citrus, fish and other foods from Taiwan but avoided disrupting important
100 technology and manufacturing relationships (AP, 2022). Heat waves, drought, and war left Nagorno-Karabakh
101 losing over 80% of its access to water during the war last year (Mnatsakanyan, 2021). The conflict became even
102 more relevant for Azerbaijan in terms of its drinking water, irrigation, and hydropower. Between 20,000 and
103 30,000 people were killed in military operations during the Armenia-Azerbaijan clashes (Khurshudyan et al.,
104 2022). Ballistic missiles, drones, and other heavy artillery have been used, including the use of internationally
105 banned cluster London Journal of Research in Management and Business bombs ??Kazaryan et al., 2021). Among
106 the series of clashes, 50,000 people were injured or disabled, 700 medical institutions were destroyed, and the
107 damage to the healthcare system was estimated to be \$1.2 billion (Shoib et al., 2022a) (Figure 7). Only 15% of

108 the Armenian population was found to be doubly vaccinated until October, 2021. They were found to have the
109 lowest vaccination rates in the Caucasus region as the pandemic has been politicized (Cookman, 2021)

110 **3 (c) Sanctions and Anti-regime protests in Iran**

111 The current anti-regime protest in Iran is a perpetuation of the previous one, sparked by the government's subsidy
112 cut decision that caused price hikes by as much as 300% for a variety of staples (Associated Press, 2022)

113 **4 (d) The War-weary Afghanistan**

114 The US Armed Forces completed their withdrawal from Afghanistan on December 31, 2021, ending 20 years of
115 war and leaving 13 million children facing malnutrition (Essar et al., 2022) and one-third of the people food
116 unsecured (Islam et al., 2021). The IMF says, the long-run war in Afghanistan lowered yearly national income
117 by roughly 50% in 2016 (Hameed et al., 2022). Inflation began to rise in early 2021 as strengthening oil prices
118 increased food transportation costs by as much as 50% in some areas (Islam et al., 2021). Since the USA's
119 withdrawal, the World Bank, one of the project's main funders, has stopped funding the country's largest health
120 project, which constituted nearly 80% of the country's total health expenditure London Journal of Research in
121 Management and Business (Hussaini et al., 2022). This has created ripple effects for the healthcare system, as
122 hospitals operate with minimum resources (Walraven et al., 2021). The country has gone through four waves of
123 the COVID-19, and trading economics data shows that the vaccination rate has just touched 30% as of December
124 3, 2022 (Asady et al., 2022). According to the WHO, deaths due to environmental risks and pollution constitute
125 26% of overall mortality in Afghanistan. More than 30% children under 5 are underweight and malnutrition
126 reported among 60% children (Masood et al., 2022). Drug abuse prevalence is close to 13% among those who
127 are 15 years and older, and the country is known as the world's largest producer of opium, with an estimated
128 85% share of the total global supply in 2020 ?? 6). As the outbreak in Syria has grown, cholera has spread to
129 neighboring Lebanon (Gebeily, 2022).

130 d. Afro-Arab Sudan faces 'generational catastrophe'—floods, militia raids and hunger mean a third of children
131 are not in school at all (Salih, 2022). Among the most internally displaced people on the African continent,
132 Sudan is home to over 1.1 million refugees, the majority of whom are fleeing South Sudan (UNHCR, 2022c)
133 (Figure 6). The country has been in the midst of a political crisis ever since long-time leader Omar al-Bashir was
134 overthrown there in April ??Sirgany et (Raghavan, 2019). Libya's health system is on the verge of collapse, with
135 three-quarters of primary health care facilities closed due to a lack of medical personnel, supplies, medication, and
136 equipment (Iwendi et al., 2021). Only 40% of hospitals' inpatient beds are adequately functioning with an overall
137 bed capacity of 15 per 10,000 (Elhadi & Msherghi, 2020). According to data from Trading Economics, food
138 inflation in Libya averaged 9.87% from 2005 to 2022 and peaked at 52.64% in December of 2017. Over 80% of all
139 deaths and 78% of years with a disability-adjusted life expectancy in Libya are due to non-communicable diseases,
140 which are particularly susceptible to long-term breakdowns in health services and policymaking processes (Allen
141 et al., 2022). (Tegegne et al., 2022). Armed conflict between the Ethiopian military and the Tigrayan Defense
142 Force (TDF) in northern Ethiopia began on November 4, 2020 (Berhe et al., , 2022) and has displaced over 3
143 million people and killed about 500,000 in the last 2 years (Sharif, 2022). Armed militants destroyed crops, killed
144 people, looted and vandalized hospitals, clinics, health posts, and ambulances, as well as ransacked and destroyed
145 schools (Wall, 2022). Rape, gang rape, sexual enslavement, torture, beatings and killings of friends and family,
146 and derogatory ethnic slurs have all been reported (Berhe et al., 2022). According to the United Nations World
147 Food Programme (WFP), nearly half of Tigray's six million residents are classified as "heavily food insecure," with
148 nearly 90% lacking regular access to food. According to the UN, nearly one in every three children under the age
149 of five is malnourished (Davies, August 2022). Among patients with severe illness, the Covid-19-related mortality
150 rate went up to 40.3% (Temesgen Abebe et al., 2022). Fistula is raging in Tigray as a result of obstructed
151 labor, limited or absent maternal care services, under-nutrition growth, birth difficulties, trauma, and sexually
152 transmitted diseases (STDs) caused by conflict-related sexual London Journal of Research in Management and
153 Business violence (Gesese et al., 2022). According to Médecins Sans Frontières (MSF) assessment of 106 health
154 facilities in the Tigray region between mid-December 2020 and early March 2021, "nearly 70% had been robbed,
155 and more than 30% had been disrupted; only 13% were operating normally" (Gebregziabher et al., 2022). The
156 ongoing conflict resulted in the destruction or damage of more than 1500 health facilities in Ethiopia in 2021,
157 according to the country's health ministry (Anderson, 2022) (Figure 7). However, a surprise deal has been reached
158 in the Ethiopian civil war with both sides agreeing to halt their two-year conflict (Macaulay & Soy, 2022).

159 **5 (b) Democratic Republic of the Congo-Rwanda Conflict**

160 On

161 **6 (b) Malnutrition is still a world health crisis**

162 Global acute malnutrition increased dramatically and staggeringly from 10% in 2019 to 28% in 2019, and house-
163 hold food security significantly decreased from 59% in 2019 to 15% (Mulugeta & Gebregziabher, 2022). According
164 to the World Innovation Summit for Health, 2018 60% of chronically food-insecure and malnourished people

165 globally, including 75% of all children with stunted growth, live in conflict-affected countries (Gebregziabher et
166 al., 2022) (Figure 7).

167 **7 (c) Poor health literacy still prevails in wealthy and dominant** 168 **countries**

169 Unfortunately, many European citizens lack health literacy, limiting their ability to make decisions about their
170 own, their families', and their communities' health and well-being (WHO, Regional Committee for Europe, 2019).
171 Even low health literacy (Figure 2) is reported in nearly 40% of US (Emerson et al., 2022)

172 **8 (d) "Net-Zero Carbon" delayed by decades due to 'collabora-** 173 **tion gap'**

174 Approximately 80% of global carbon emissions are attributed to energy, according to the International Energy
175 Agency (IEA) (Bhardwaj, 2021). Current trends in global food systems would prevent the 1.5 °C target from being
176 met and put the 2 °C target by the end of the century in jeopardy, even if fossil fuel emissions stopped now (Costa
177 et al., 2022). According to an Oxford study, decarbonizing the energy system by 2050 could result in enormous
178 cost savings, but it will require a massive increase in private investment in renewable energy and sustainable
179 infrastructure around the world. Estimated annual private investment in these sectors until 2050 ranges from
180 US\$4.4 trillion to \$9.2 trillion (Way et al., 2022; ??opley, 2022). Not surprisingly, America and China, two major
181 polluters (40% of total CO2 emissions), were hesitant and noncommittal on the issue at COP27 (Hye, 2022).
182 The IEA estimates that global nuclear capacity will need to double by 2050 to meet net-zero targets (Chestney,
183 2022), but obstacles remain. In the aftermath of the Fukushima disaster in Japan, Germany, for example, was
184 required to close nuclear power plants by ??022 (Ekblad, 2020). Health care may be low on the list of priorities for
185 children and adolescents who face severe pressures ranging from overcrowded camps or asylums to deep anxiety
186 about their future (Hawke, 2020). Humanitarian crises are associated with increased short-and long-term cardiac
187 morbidity and mortality, as well as elevated blood pressure (Keasley et al., 2020). Hypertensive patients with
188 diabetes mellitus were twice as likely to exhibit poor BP control, as found in war-torn Palestine (Alawneh et al.,
189 2022). Also, a US-based survey of re-settled Rohingya refugees from Myanmar shows a higher trend of chronic
190 diseases like diabetes, hypertension, and obesity ??Rahman et al., 2022). A huge increase in benzodiazepine
191 (sedative) dispensing is reported in Canada, and abuse of similar drugs doubled in Italy among people suffering
192 from anxiety and stress caused by COVID-19, between the years 2020 and 2021 (Sarangi et al., 2021) (Figure 7).
193 An announcement from authorities on "simple possession of cannabis" to thousands of convicted citizens prior to
194 the US midterm elections exploded recreational drug abuse in both the US and the EU (Lopez, November 2022;
195 Oltermann, 2022).

196 **9 (g) War and terrorism hits on healthcare system**

197 A terrorist attack on a hospital is not uncommon. In just 2017, there were at least 188 hospitals and clinics
198 that were destroyed or damaged. More than 60 people were kidnapped and 64 healthcare workers were killed;
199 203 patients died and 141 were injured. Health facilities have been forced to close in Afghanistan, Burkina Faso,
200 the Central African Republic, Egypt, and Turkey (The Lancet-Editorial, 2018). Research finds 454 terrorist
201 attacks against hospitals were identified in 61 different countries over a 50-year period by the Global Terrorism
202 Database (GTD), where more than 50% of the attacks took place in the Middle East, Northern Africa, and
203 South Asia (Figure 7). And in more than 50% of cases, attacks targeted medical personnel (Ulmer et al., 2022).
204 Two other similar studies show that close to 70% of those attacks involved in bomb explosion (McNeilly et.
205 al., 2022) and close to 60% attacks taken place after 2001 (Cavaliere et al., 2021). Attacks on hospitals may
206 have long-term consequences: hospital units may be unavailable for an extended period of time, and replacing
207 staff may take several months, further complicating hospital operations. In addition, hospitals are houses of
208 resources (drugs, toxins, radioactive elements, and biological cultures) and information that could be used
209 for nefarious purposes, making them a tempting target for terrorist groups. A full-fledged war and siege can
210 have devastating consequences for patients who require constant care and well-functioning health infrastructural
211 facilities, especially in resource-limited settings where providing optimal care is already difficult (Sekkarie et al.,
212 2020).

213 **10 London Journal of Research in Management and Business** 214 **(h) Global transition or a massive work-force redistribution**

215 The pandemic has accelerated job redistribution across sectors, with an estimated 25% of workers worldwide
216 choosing or being forced to change occupations by 2030 ??Peters et

217 11 (i) Healthcare workforce shortage and transition

218 The redistribution of the workforce and the shortage of workers could lead to a unique situation in healthcare
219 systems around the world. The Eurozone is dealing with severe healthcare shortages (Figure 7). There are fewer
220 doctors in France today than there were in 2012. In Germany, there were 35,000 unfilled positions in the care
221 industry last year, a 40% increase from ten years prior. More than 700,000 people in Spain were awaiting surgery.
222 (j) Fears of nuclear war or biological weapons are not entirely false Invaders of Ukraine launched projectiles at
223 Chernobyl nuclear facility and the active Zaporizhzhia complex, causing international concern and raising fears
224 of a nuclear disaster in Eastern Europe (Tansu & Culp, 2022). The pandemic, hunger, discrimination or racism,
225 climate change, rising inflation or economic crisis, imperialism, political turmoil and nuclear war share a common
226 thing-conflict. In the last 100 years, human civilization has experienced multiple acts of bioterrorism, chemical
227 warfare, and nuclear explosions that have targeted civilians (Williams et al., 2022); all of them were borne out
228 of conflicts. Although, the Geneva Protocol, which was first signed in 1925 and is still in effect today, forbids
229 the development, manufacture, and use of biological weapons in armed conflict ?? 7). And, no nuclear-armed
230 state is currently disarming, nor engaged in nuclear disarmament negotiations (Ruff, 2022). Also, SARS-CoV-2
231 has already demonstrated its ability to start a pandemic and, in spite of efforts made around the world, it still
232 poses a serious threat to use as a bioweapon (Farkas et al., 2022) (Figure 7). & Rajaeieh, 2020). In response
233 to an expected Russian attack, the Eurozone increased its arms purchases by nearly 20%, despite the fact that
234 spending on healthcare would be more necessary given the region's severe healthcare shortages, which may cause
235 the region's health system to collapse in the near future (Barber, 2022) (Figure 7). This was the case despite
236 the fact that the global trade in major arms fell by 4.6% (Hasselbach, 2022). 10. It is impossible to shelter
237 the population from biological weapons, but possible antidotes or vaccines may have been developed in secret.
238 However, they will not be given away for free, and there will be an option to purchase them at a bargain price.
239 Opportunistic gain is at the heart of all types of mischiefs. If that is the case, the potential for a nuclear attack
240 becomes almost non-existent, because there will be no opportunity for dirty instincts to be satisfied if civilization
241 does not exist. But risk arises when terrorists capture a nuclear weapon through hijacking or, in some cases,
242 misconceptions ??Salami, 2022;Williams et al., 2022).

243 12 VI. LIMITATION OF THE STUDY

244 Media control and propaganda always put strain over information broadcast, especially when it is related to war
245 and conflict. Therefore, data collection from media source become a limitation for any researcher. However, the
present analysis mostly uses statements from ^{1 2}



Figure 1: Figure 1 :



Figure 2: Figure 2 :



Figure 3: Figure 4 :

¹ Volume 23 | Issue 1 | Compilation 1.0 © 2023 London Journals Press Global Conflict Escalation During the Pandemic, Climate, and Economic Dilemmas: Healthcare Sustainability Challenges in Conflict Zones and Elsewhere

² October 1). Global food crisis demands support for people, open trade, bigger local harvests. The Daily Star. Retrieved December 1, 2022, from [https:// www. thedailystar.net/business/news/global-food](https://www.thedailystar.net/business/news/global-food)



3

Figure 4: [3]



6

Figure 5: Figure 6 :



7

Figure 6: Figure 7 :

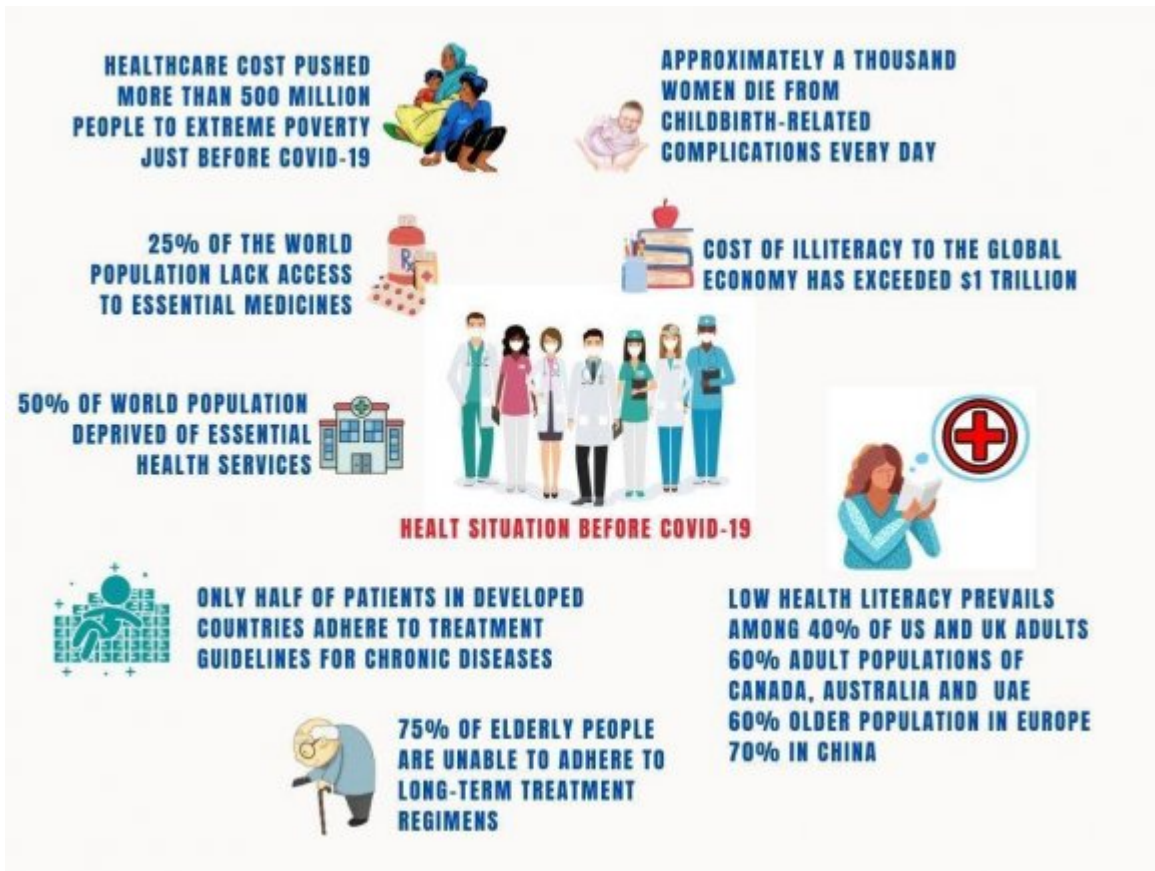


Figure 7:

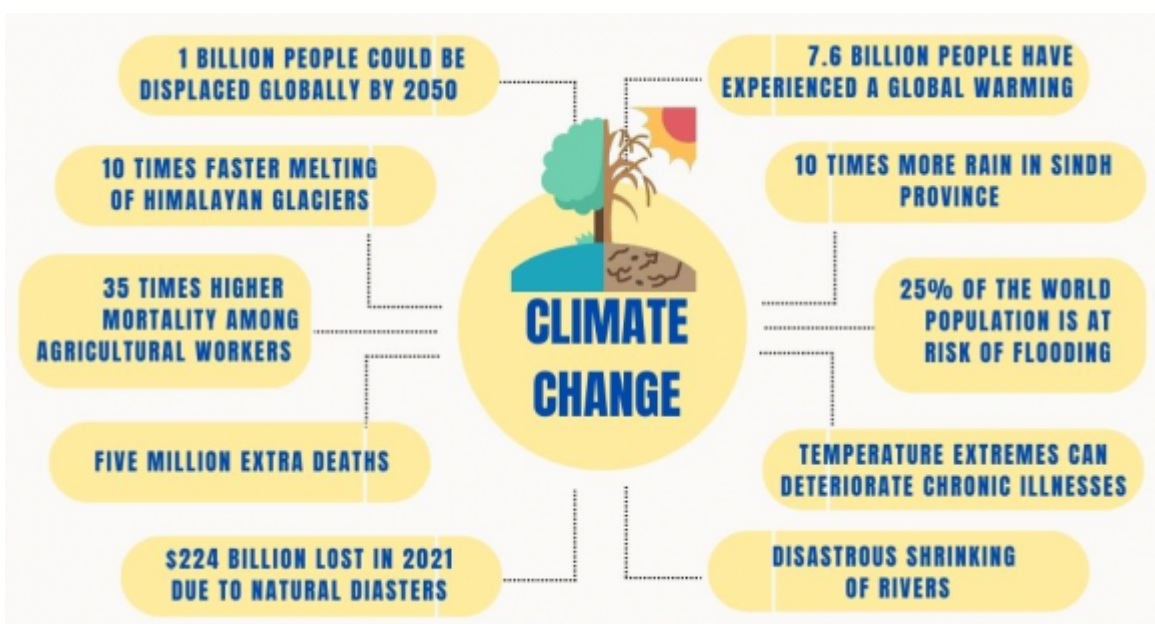


Figure 8:

The world's

consumption of coal is taking it back to the record
Global expenditure on

level it reached nearly a decade ago, says an military
weapons exceeded \$500 billion in 2020

International Energy Agency press release (IEA, and
military spending surpassed \$2 trillion by

2022). In its recent publication, Nature Food now
(Rolander, 2022) (Figure 4). After seeing

journal is saying "We estimate more than 2 billion
50-100 million deaths in 1918-1919 Flu pandemic

people could die from nuclear war between India and
more than 34 million deaths in World War II,

and Pakistan, and more than 5 billion could die the
incorrigible world is thirsty for another great

from a war between the United States and war in the
midst of Covid-19 pandemic (Jahan,

Russia-underlining the importance of global 2021;
Ferguson, 2022; Mollman, 2022;

cooperation in preventing nuclear war" (Xia et Rosen-
feld, 2022; Waheeduzzaman, 2022).

al., 2022). Whoever wins the war, humanity loses.

D. Present Global Economic Crisis: Fact is [1]. Rus-
sian Aggression against Ukraine

Stranger Than Fiction The present cold winter dis-
tress in Europe and the

power-fuel crisis, price volatility, inflationary

pressure, and recession around the globe are a

consequence of this war. The GDP of Ukraine

could decrease by up to 35 to 40% if the war lasts
longer (Astrov et al., 2022). As of August 4, 2022,

more than 7 million people remain, and around 10
million refugee movements have been recorded

Global central banks continued raising interest out of
Ukraine (Haque et. al., 2022) (Figure

rates following Federal Bank of America to
prevent inflation, at the fastest pace in decades

but failed, so far (Fairless, 2022; Canepa &
Schneider, 2022; Hole, 2022; Smialek, 2022).

Inflation hits 40 years high in the US, UK
(Hagstrom, 2022; Hannon November 16, 2022;

Lopez, April 2022), Japan (Reuters, November
2022), Germany (Arnold, March 2022); 37 years

bankruptcy during the pre-
vious two centuries

(TBS Report July 05, 2022;
Mohamed, 2022).

However, according to a
UN official at the

November 2022 climate
change conference,

COP27, held in Egypt, 54
countries with the

poorest development are
currently in danger of

bankruptcy (Harvey, 2022)
(Figure 5). Lebanon,

Sri Lanka, Russia, Suri-
name and Zambia are

already in a debt default
(Reuters, June 2022). In

addition to increased em-
ployer's healthcare

insurance cost (Mathews,
2019), currency

devaluation (Lubin, 2022),
a reduced labor force

or lack of skilled labor
(Pizzinelli & Shibata,

2022), fuel-power crisis
(Englund, 2021), and the

transportation freight cost
(Carrière-Swallow et

al., 2022; Golle, 2021;
Miller & Curran, 2022) has

hit the supply and demand
chain massively and

caused trouble for manu-
facturers, who have

undergone layoffs or de-
layed their economic

activities to prevent more
loss.

, 2021). Azerbaijan's Caspian Sea, the world's largest landlocked body of water, is already rising, threatening the country's major urban centers and industrial resources along the coast (Yazdanpanah et al., 2020). With an increase in the frequency of extreme weather events, worsening desertification, and worsening land degradation, climate change is making Armenia more vulnerable. Agriculture, human health, water resources, forestry, transportation and energy infrastructure, and human health are the most at risk (World Bank/ADB, 2021). (b) Kyrgyzstan-Tajikistan border Conflicts Kyrgyzstan-Tajikistan border tensions erupted into a brief open conflict in September 2022, and there have been more than 230 border clashes over the last 20 years between the two countries (Reuters, September 20, 2022). The two landlocked countries share an approximately 1,000-km long border, a third of which is disputed (Davies, September 2022). As a result of the COVID-19 pandemic, both of these countries have seen a precipitous drop in migrant laborer remittances from Russia (Tompson et al., 2020). Both of these countries' progress in Western-style public health education and science has been found to be slow (Gotsadze et al., 2022).

Figure 10:

et al., 2020). Iran's economic woes have sparked several waves of protests in recent years. The UN human-rights chief has urged Iranian authorities to stop the "disproportionate use of violence" that has reportedly killed over 50 children and injured many more during Iran's public unrest (Cooper & English, 2022). Many Iranians injured by security forces during the protests are afraid to seek medical attention because some protesters seeking medical assistance have been detained. Iran has long been subject to severe international economic sanctions, which have limited their access to healthcare and are thought to be a contributing factor to the suffering (Kokabisaghi, 2018). Iran's ability to import drugs and medical equipment has been constrained by the majority of pharmaceutical companies being wary of getting into trouble due to US sanctions (Bastani et al., 2022). Patients with thalassemia, hemophilia, cancer, epilepsy, and multiple sclerosis who need medical care have been severely hampered by sanctions (Asadi-Pooya et al., 2022). According to the 2018 statistics, among those who inject drugs in the Middle East and North Africa (MENA) region, more than 45% of them were from Iran (Mirzaei et al., 2022).

factor to the suffering

Figure 11:

Libya has experienced decades of armed conflict and political instability. During the Gaddafi regime, oil-rich Libya enjoyed free education, electricity, and health facilities (John,

2008) Libya health-care

infrastructure continues to deteriorate due to civil war, inadequate human and financial support, and inadequate health facilities. More than 37 attacks reported over health facilities and medical personnel after violence began in April, 2019

Figure 12:

[5]. War and Conflicts in African Countries

Deserts, grasslands, tropical forests, and semiarid lands are the four major climate zones in Africa (Williams et al., 2007). The three most important security concerns in Africa to watch in 2022 are intra-state unconstitutional changes in government (Gruzd et al., 2022). Droughts in Sub-Saharan Africa more than tripled between 1970 and 2009. According to the African Development Bank, climate change is costing Africa up to 15% of GDP growth (Reuters, September 13, 2022). Another recent study commissioned by Christian Aid claims that unless significant investments in climate adaptation are made, global warming will reduce Africa's economic growth by two-thirds by the end of the century (Pearce & Andrijevic, 2022). In 2018, 2.2 million people were affected by devastating cyclones in Malawi, Mozambique, and Zimbabwe. Malaria, dengue fever, Lassa fever, Rift Valley fever, Lyme disease, Ebola virus, West Nile virus, and other infections have been linked to natural disasters (Anugwom, 2021). Furthermore, due to the central role agriculture plays in African economies, malnutrition has increased by nearly 50% since 2012 (Atwoli et al., 2022). African nations, which have contributed the least to the global climate crisis, could see a 64% decline in their GDP growth rate by the end of the century (Lakhani, 2022). However, the UN and Red Cross blame the Ukraine crisis for contributing to nearly 25% of Africans' food insecurity (Phillips, 2022; Sacko & Mayaki, 2022). Additionally, until December 2, 2022, only one-third of the population will have received at least one dose of a vaccine, making them the continent with the lowest vaccination rate (Holder, 2022). The pandemic delayed the first dose of Diphtheria, Pertussis, Tetanus, Hepatitis B, and Hemophilus influenza B vaccines for 8 million African children in 2020 (Njoh et al., 2022). In addition, more than 95% malaria is reported in African countries (Elagali et al., 2022). Since 1989, 75% of non-state armed conflicts have been in Africa (Okiro & Ayieko, 2018). Many authors have argued climate

crises have strong association with conflicts in Africa (O'Loughlin & Witemer, 2014; Burrows, 2009; Cappelli et al., 2022; Ikoku, 2022). Sub-Saharan Africa has the highest number of conflicts in the world, with at least a thousand people killed each year on average over the last two decades (Chol et al., 2018). Half of the H5N1 and Hepatitis E outbreaks in sub-Saharan Africa occurred among refugees and displaced people, highlighting the role of climate change in humanitarian crisis settings (Ahmed et al., 2022).

(a) Ethiopia's Tigray conflict

Ethiopia, a landlocked country in the Horn of Africa, is a federal democratic republic. In Ethiopia, the pooled level of poor COVID-19 prevention practice was 51.60%. Inadequate COVID-19 knowledge, a negative attitude towards COVID-19 management, low health care attainment, living in a rural area, and being female were all significantly associated with poor COVID-19 prevention practices

(e) Pandemic hits on healthcare system
 The pandemic's longest and most deadly surge has posed risks to quality of care and left medical professionals exhausted. Various studies on health professionals show work-related stress, sleep disturbances and burnouts in 60% (Koontalay et al, 2021; Al-Otaibi et al., 2022; Biber et al., 2022); and hospitalization within 6 months of the pandemic starting 15% (Gholami et al., 2021). Also, WHO assumes that more than 1,15,000 health professionals may have died in the period between January 2020 and May 2021, and illnesses kept at least 500,000 health workers out of the US labor force alone (WHO, 2021; Guilford, 2022). Nearly 20% of 1000 American allied health workers (nurses, assistants, etc.) who responded to the survey stated that the pandemic was one of the main reasons they quit their jobs (Poon et al., 2022). According to a cross-sectional study conducted by the US Bureau of Labor Statistics

and the University of Minnesota Data Service, pandemic-induced physician turnover was four times that of allied professionals (Frogner & Dill, 2022). Lack of PPE, medical supplies, and adequate compensation have been reported in several studies.

(f) Humanitarian crisis over treatment guideline adherence and drug misuse
 Migration
 determinants of health problems for refugees and other migrants

and displacement

Figure 14:

Schaer, 2019; Noack, 2021; Harding, 2022;
 Horowitz,

2022) (Figure

Figure 15:

accompanied by a precipitation of both chronic Africa was fueled by commercial greed, and contagious disease burdens. The territorial ambition, and political rivalry (BBC non-cooperation of two major polluters at World Service). They encouraged Africans to COP-27 may be associated with trade fight each other in order to gain power war-related privations, an economic crisis due (Se-

lassie, 2019; Wong, 2022). to the pandemic, and fuel and power crisis. Gutiérrez-Romero, 2022, stated that a 10% Rather, the pandemic and the fuel crisis forced increase in the local price index is associated major polluters to return to fossil fuel energy with a 0.7 percentage point increase in violence production. against civilians in Africa. The Ukraine crisis

3. Climate disasters are not under human control contributes 25% of their food insecurity, but are not completely beyond human reach. according to the UN and Red Cross. Much less of the money spent on war could Furthermore, Christian Aid claims severe have been spent on innovation, food, and the economic stagflation will multiply conflicts in health system (Ikegami & Wang, 2022). The the future (Pearce & Andrijevic, 2022). Their world's medical system is still lacking (Kaiman health system is also a terrible mess. They may et al., 2014; Rahman et al., 2020), facing newer never get rid of this position unless there is a types of diseases and challenges and will face solution to their conflict.

London in coming days (Cazzolla Gatti, 2021; Journal Koumoundouros, 2022; Geddes, 2022). Many cancer types, HIV, autoimmune diseases, genetic disorders, antibiotic resistance-solutions of many vexing problems remain to be found. 4. Russia's invasion of Ukraine threatens to exacerbate the in global inflationary surge, unbalancing oil demand and investment. The triple whammy of pandemic, age fuel price shock, and currency depreciation causes economic and financial turmoil in low-and middle-and income countries. Medical care and health spending generally increase faster than general inflationness (Goss, 2022). Also, rising inflation is associated with infant mortality rise (Bao et al., 2022); child and maternal health compromise (Cader & Perera, 2011); hospital labor expenses per patient (American Hospital 7. Approximately 450 terrorist attacks on healthcare facilities, mostly by bomb explosion, have been registered in more than 60 countries over the last five decades. It also raises the question of

accessibility of insecticides necessary to control vector-borne disease (Claborn, 2020), are just a few examples of such problems.

5. Both conflict and climate crises cause displacements, which bring not only food and health crises but also unhealthy competition and newer conflicts. Pandemics, climate crisis, and economic downturns poses major hit during and/or after a major conflict.

Environmental pollution would not cause 26% of mortality in Afghanistan if it had not been a war zone for the last 20 years. The Vietnam War lasted some 30 years and killed three million people or more (Shivakumar, 1995). Following the war, Vietnam was completely dedicated to an economic revolution and did not engage in any significant conflict. Violence

was much lower after the Taliban took over, but it is now increasing as the Taliban fights two insurgencies. Azerbaijan and Armenia could resist more against a pandemic induced 5% GDP drop and \$1.2 billion in healthcare damage. A noticeable fact is that 700 medical institutions were destroyed at the cost of the Nagorno-Karabakh conflict, and the water crisis in Azerbaijan was a key factor, driven by the climate crisis (O'Leary & Gray, 2006; Kuyumjian, 2021). Medical advances in Iran have boosted the

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COP27: 27th Conference of the Parties to the United Nations Framework Convention on Climate Change

Abbreviations ADB: Asian Development Bank AFP: Agence France-Presse AIDS: Acquired Immune Deficiency Syndrome AMD: Advanced Micro Devices, Inc. API: Active Pharmaceutical Ingredient BBC: British Broadcasting Corporation CDC: US Centers for Disease Control and Prevention COVID-19: Coronavirus disease of 2019 global health workforce stock and distribution in 2020 and 2030: a threat to equity and 'universal' health coverage?. BMJ YOY: The CRED: Centre for Research on the Epidemiology of Disasters, Brussels CNBC: Consumer News and Business Channel EU: The European Union GDP: Gross Domestic Product GP: General Practitioner GTD: Global Terrorism Database HIV: Human Immunodeficiency Virus HP: Hewlett-Packard H&M: Hennes & Mauritz AB HSBC: Hongkong and Shanghai Banking Corporation ICU: Intensive Care Units IEA: International Energy Agency IMF: International Monetary Fund JPMorgan Chase: JPMorgan Chase & Co. MENA: Middle East and North Africa MSF: Médecins Sans Frontières MOPIC: Ministry of Planning and International Cooperation OECD: The Organization for Economic Co-operation and Development MOPIC: Physicians for Human Rights' PLI: Production Linked Incentive PPE: Personal Protective Equipment PTSD: Post-Traumatic Stress Disorder QUAD: Quadrilateral Security Dialogue SMEs: Small and Medium-sized Enterprises STDs: Sexually Transmitted Diseases TBS: The Business Standard TDF: Tigrayan Defense Force TSMC: Taiwan Semiconductor Manufacturing Company Limited UAE: United Arab Emirates UNESCO: United Nations Educational, Scientific and Cultural Organization UNHCR: United Nations High Commissioner for Refugees UNICEF: United Nations Children's Fund WFP: World Food Programme WHO: World Health Organization WWF: World Wildlife Fund global health, COVAX: COVID-19 Vaccines Global Access CNN: Cable News Network

Figure 17:

246 Since journal publications lag behind many updates, popular online news platforms such as Financial Times,
247 Washington Post, The Wall Street Journal, The Guardian, The Daily Star, BBC, CNN, CNBC, New York Times,
248 Business Standard, Bloomberg, Washington Post,

249 Declaration: The present study was conducted solely for the purpose of examining global sustainability
250 challenges and future health system projections.

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