

# COVID-19: The Correlates of Violence against Women and Surveillance of Novel Coronavirus (COVID -19) Pandemic Outbreak Globally: A Systematic Review and Meta-Analysis

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## Abstract

**Background:** COVID-19 is a serious global pandemic with more than 1 million confirmed cases and 64,000 deaths. Cases of coronavirus disease 2019 (COVID-19) are rapidly increasing and infected millions globally. Violence against women and girls is also a global human rights violation and public health problem in lockdown period.

**Objective:** This systematic review was conducted to show the relationship between impacts of COVID-19 and violence against women, and their impacts on women's health and human rights globally.

**Methods:** The systematic selection of case reports, clinical trials, review reports by experts or commentators, editor's letters, and available indexed articles/journals were undertaken. The author conducted the literature search on March 20 up to 02 May 2020, where existing quantitative and qualitative data are included in this review.

**Results:** COVID-19 is a serious global pandemic with more than 1 million confirmed cases and 64,000 deaths. The COVID-19 pandemic has been the fastest-moving global public health crisis in a century, causing significant mortality and morbidity and giving rise to daunting health and human rights violations. As the findings demonstrate, there is an increase of violence during the period of lockdown. As a result of COVID-19, violence against women can result in injuries and serious physical, economical, mental, sexual and reproductive health problems, including sexually transmitted infections, HIV, and unplanned pregnancies in lockdown. Hence, the health and human rights of women generally is adversely impacted globally due to COVID-19.

**Conclusions:** As COVID-19 pandemic deepens economic and social stress coupled with movement restriction and social isolation measures, gender-based violence is increasing exponentially, and traps women and girls. The physical and psychological costs of violence against women and girls are substantial. Globally, the estimated global cost of violence against women and girls is 1.5 Trillion women where nearly 1/2 amount of the world population in lockdown due to COVID-19. Hence, it has a relationship of violence against women and girls and surveillance of COVID-19 outbreak globally. In line with problems identified, civil society organizations and governments should work collaboratively with the whole society at home, institutions and public in general.

**Keywords:** COVID-19; pandemic; sexual & reproductive health; violence against women

## Background

On 31 December 2019, an outbreak of a respiratory disease associated with a novel coronavirus was reported in the city of Wuhan in a wet market, the Hubei province of the People's Republic of China [1; 2]. COVID-19 outbreak was first reported in Wuhan, China. On 9 January 2020, China CDC reported a novel coronavirus as the causative agent of this outbreak, coronavirus disease 2019 (COVID-19) and has spread to more than 50 countries [3]. WHO declared COVID-19 as a Public Health Emergency of International Concern (PHEIC), on 30 January 2020[4].



Coronaviruses (CoV) are a large family of viruses that cause illnesses ranging from the common cold to more severe diseases, such as Middle East Respiratory Syndrome (MERS-CoV) and Severe Acute Respiratory Syndrome (SARS-CoV). A novel coronavirus is a new strain that has not been previously identified in humans. The virus has spread worldwide rapidly and on March 11, 2020, the World Health Organization declared Coronavirus Disease 2019 (COVID-19) a pandemic [1; 3; 4; 5; 6].

A Report of the WHO-China Joint Mission on (COVID-19) indicated the early cases identified in Wuhan are believed to have acquired infection from a zoonotic source as many reported visiting or working in the Wuhan Wholesale Seafood Market. As of 25 February, an animal source has not yet been identified [7]. But, COVID-19 is a zoonotic disease, in other words, a disease caused by the transfer of a pathogen from animals to humans [8].

Additionally, Coronavirus Disease 2019 (COVID-19) is an infectious respiratory disease caused by severe acute respiratory syndrome coronavirus SARS-CoV-2 virus [9; 10]. COVID-19 is caused by a new type of coronavirus which was previously named 2019-nCoV by the World Health Organization (WHO). It is the seventh member of the coronavirus family, together with MERS-nCoV and SARS-nCoV that can spread to humans [4].

The Coronavirus virus is thought to spread mainly from person-to-person, including: between people who are in close contact with one another (within about 6 feet). Through respiratory droplets produced when an infected person coughs or sneezes. These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs. It may be possible that a person can get COVID-19 by touching a surface or object that has SARS-CoV-2 on it and then touching their own mouth, nose, or possibly their eyes, but this is not thought to be the primary way the virus spreads [9]. Coronavirus disease 2019 (COVID-19) is the virus typically spreads from person to person via respiratory droplets produced during coughing, and common symptoms include fever, cough, and shortness of breath and diarrhea [4;9;10].The clinical presentations of COVID-19 range from no symptoms (asymptomatic) to severe pneumonia; severe disease can lead to death [3]. But, in more severe cases, COVID-19 can cause pneumonia and even death [4].According to the CDC, symptoms of COVID-19 may appear in as few as 2 days or as long as 14 days after exposure[9].

COVID-19 is a serious global pandemic with more than 1 million confirmed cases and 64,000 deaths [11].While about 97–99% of individuals infected with coronavirus recovers, a high proportion of cases require hospitalization, and people over 65 and those with some underlying medical conditions experience higher mortality. As the virus spreads, the COVID-19 pandemic has the potential to quickly overwhelm health systems [12].It has spread from China to many other countries around the world, including the United States. The first case of COVID-19 in the United States was reported in January 2020 and the first death in February 2020, both in Washington State. Since then, the number of reported cases in the United States has increased and is expected to continue to rise [13].

Depending on the severity of COVID-19's international impacts, outbreak conditions-including those rising to the level of a pandemic-can affect all aspects of daily life, including travel, trade, tourism, food supplies, and financial markets[9].While cases are currently concentrated in Europe, East Asia, and the Americas, the COVID-19 pandemic now spans 183 countries.

The potential impact in countries in the Caribbean, Africa, and Southern Asia, which may have lower-capacity health systems and large vulnerable populations, is still unknown [12].Numbers are expected to continue rising exponentially in the coming days, weeks, and months. Initial research indicates that older persons are most likely to suffer serious complications from COVID-19 and that men are more likely to experience high mortality rates than women, but this analysis may change as COVID-19 more data becomes available [14]. Regardless, all vulnerable populations will experience COVID-19 outbreaks differently. Until recently, the transmission of COVID-19 to developing countries or those experiencing ongoing humanitarian emergencies had been limited. Access constraints and poor health and sanitation infrastructure are obstacles to disease prevention and treatment under the best of circumstances; when coupled with gender inequality and, in some cases, insecurity, public health responses become immeasurably more complex[15], but such transmission is now occurring. Development and humanitarian settings pose particular challenges for infectious disease prevention and control [16].

## Methods

This systematic review summarizes all of the studies that were conducted on the impacts of COVID-19 and violence against women on women health and human rights such as , its impacts on women's sexual and reproductive rights, and socio-economic opportunities. Due to the rationale that COVID-19 is new for humans, there is limited scientific studies are existed. So, the systematic selection of case reports, clinical trials, health institutions guidelines, forum reports, commentators, editor's letters, and available indexed articles/journals were undertaken to conduct this study. The author conducted the literature search on March 20 up to 02 May2020, where the existing quantitative and qualitative data included in this review. Hence, specific concerns about violence against women and COVID-19 that includes issues which are relevant for women health and women human rights are included.

## Sources and Study selection

Relevant literature in relation of violence against women and COVID-19 was identified and searched by MEDLINE and PubMed. According to the pre-determined protocol, the author systematically searched for all eligible reports, full reports or letters with original data written in English. Eligible studies and reports were cross-sectional studies, case serious, working papers, case series, and clinical trials. So, the literature search on 20 March 20 20 and restricted to 02 may 2020 ,where all articles or reports conducted until this time were incorporated.

All related English version of the literature that related to COVID-19 and its impacts on women and girls were reviewed. Although an extensive literature search was undertaken for this systematic review, this review is not meant to summarize all that is known about the impacts of COVID-19 and Violence against women to women health and human rights after 02 May 2020 that are not covered. Rather, it is meant to provide a brief summarize and reviewed systematically on the COVID-19 pandemic outbreak to orient the reader and to highlights to lesson learned and to focus on the important aspects of the pandemic outbreak and its impact



on women and girls that are of particular relevance for health-practitioners, gender specialist, health institutions and humanitarian agencies.

## Results and Discussions

Coronavirus (COVID-19), declared as a pandemic by the WHO in 11 March 2020, has rapidly infected millions globally. Cases of novel coronavirus disease 2019 (COVID-19) are rapidly increasing globally [17; 18]. A fast-rising number of confirmed cases have been observed in all continents, with Europe at the epicentre of the outbreak at this moment [19]. As of 26 March 2020, a total number of 480446 cumulative cases of COVID-19 have been reported in 175 countries and regions, including 22030 confirmed deaths, the majority of which have been reported in Italy (7503), Spain (4089) and China (3169)[20]. In Spain, as of 25 March 2020, most of those who have died were elderly, about 96% of deaths were in those over 60 years old, and 45% had pre-existing health conditions including cardiovascular disease (31%)<sup>5</sup>. With 120859 deaths in 2018, cardiovascular disease (CVD) is the leading cause of death in Spain (28.3%) [20; 21]. Sex-disaggregated data for CVD in Spain show differences in mortality between men (46.3%) and women (53.7%). Surprisingly, although men (51%) and women (49%) are getting infected by COVID-19 at similar rates, men have been dying from COVID-19 at a significantly higher rate (4.4%) than women (2.5%), and the sex differences regarding vulnerability in those with COVID-19 and preexisting CVD seem to be again reflected in men (35%) and women (26%)[22]. However, the hospitalization rates were higher for those aged 60 years and above. Estimates of crude case-fatality for Germany, Italy and Spain showed that both the risk and absolute numbers of deaths rapidly increased with age for those aged 60 years and above in each country. Among hospitalized cases, severe illness was reported in 15% of cases, and death occurred in 12% of these cases, with higher case-fatality rates in older adults [3; 22].

As of April 5, 2020, more than 1.2 million cases have been confirmed and 70,000 deaths have been reported in more than 180 countries[18]. Several studies have rapidly provided crucial data (e.g., incubation period) related to various aspects of the novel coronavirus (SARS-CoV-2: severe acute respiratory syndrome coronavirus-2) infection [23]. As of April 9, 2020, the coronavirus disease 2019 (COVID-19) pandemic had resulted in 1,521,252 cases and 92,798 deaths worldwide, including 459,165 cases and 16,570 deaths in the United States [13; 24]. Here, pre-existing gender and intersectional inequalities often worsen during a crisis, including public health emergencies. Tragically, these inequalities are not consistently included as part of global frameworks and policies [25]. Recognizing the extent to which disease outbreaks affect women, girls, men and boys, people of different genders, and at-risk and marginalized groups in specific ways is fundamental to understanding the impacts of a health emergency in order to create effective, responsive and equitable policies, preparedness plans and responses [26].

Notably, violence against women and girls is a global human rights violation and public health problem, and a substantial development challenge. It affects women throughout the world, and crosses cultural and economic boundaries [27; 28; 29]. Violence against women is a public issue and encompasses virtually all spheres of public relations. It influences various

spheres of social life, including public health, protection of juvenile's rights and social and economic welfare. Domestic violence is a global phenomenon without national, economic, religious, geographic and cultural borders. Violence on woman is mostly performed in her direct social environment affecting the physical and mental health of the woman. Violence has negative consequences for social welfare, children, families and community. Domestic violence restricts the woman's right to be involved in social life. Studies conducted reveal the complexity of domestic violence character, variety of its causes and need for inter-sectorial cooperation [29; 30].

In the current novel coronavirus outbreak (COVID-19), as of mid-March 2020, there are already reports from Australia, Brazil, China and the United States suggesting an increase in violence against women and children. In China's Jianli County (Central Hubei province), the police station reported receiving 162 reports of intimate partner violence (IPV) in February—which was three times the number reported in February 2019 [31]. Globally, 243 million women and girls aged from 15-49 have been subjected to sexual and /or physical violence perpetuated by an intimate partner in the previous 12 months. As estimated by UN, the estimated global cost of violence against women and girls is 1.5 Trillion women where nearly 1/2 amount of the world population in lockdown due to COVID-19[32].

The COVID-19 pandemic has been the fastest-moving global public health crisis in a century, causing significant mortality and morbidity and giving rise to daunting health and socio-economic challenges [33]. As COVID-19 disrupts health systems and affects human health globally, it is crucial to protect those most impacted by COVID-19, sustain gains made to address other infectious diseases, and maintain people's access to life-saving health services. Stigma and discrimination experienced by KP members in health care settings limit access to and uptake of HIV services and will also likely affect their access to COVID-19-related services. Moreover, for KP individuals who are HIV-negative, the COVID pandemic may reduce their access to pre-exposure prophylaxis (PREP) and other prevention services. A critical priority during the COVID-19 pandemic is ensuring continuity of treatment and support for viral suppression among people living with HIV (PLHIV) and helping those who are at risk of HIV acquisition remain HIV negative [12;33].

Women and girls with chronic conditions, weakened immune systems (living with HIV, malaria, tuberculosis, etc.) or experiencing malnutrition appear to be particularly at risk of contracting COVID-19. Older women are more likely to have no or lower pensions and live in poverty, a manifestation of life-long inequality and discrimination. This may in turn exacerbate the impact of the virus, and their access to protective items, food & water, information and health services [34].

As it can be understood from different efforts, policies and public health efforts have not addressed the gendered impacts of disease outbreaks [35]. The response to coronavirus disease 2019 (COVID-19) appears no different. We are not aware of any gender analysis of the outbreak by global health institutions or governments in affected countries or in preparedness phases. Recognizing the extent to which disease outbreaks affect women and men differently is a fundamental step to understand the primary and secondary effects of a health emergency on different individuals and communities, and for creating effective, equitable policies and interventions. Although sex-disaggregated data for COVID-19 show equal numbers of cases between men and



women so far, there seem to be sex differences in mortality and vulnerability to the disease [36]. Simultaneously, data from the State Council Information Office in China suggest that more than 90% of health-care workers in Hubei province are women, emphasizing the gendered nature of the health workforce and the risk that predominantly female health workers incur [37].

In similar manner, gender-based violence and domestic violence is also a major concern of SRH and rights, and the consequences of enforced self-quarantine or compulsory quarantine policy to contain the outbreak are unknown. Evidence shows that, quarantine leads to negative psychological effect, including post-traumatic stress symptoms, confusion and anger [38]. Quarantine might, therefore, increase the risk of gender-based violence and domestic abuse, which have been observed in other major disease outbreaks[39].

Globally, more than 35% of women will experience GBV in their lifetime. In humanitarian crises, compounding factors, such as increased anxiety and stress levels and economic hardships, can further increase GBV rates [40]. Women's rights activists in China have reported that domestic violence cases have risen dramatically as people across much of the country have been quarantined during the coronavirus outbreak. Wan Fei, a retired police officer and founder of an anti-domestic violence nonprofit in Jingzhou, reports that "the epidemic has had a huge impact on domestic violence". According to our statistics, 90% of the causes of violence are related to the COVID-19 epidemic [41].

As a result of COVID-19, compounded economic impacts are felt especially by women and girls who are generally earning less, saving less, and holding insecure jobs or living close to poverty. While early reports reveal more men are dying as a result of COVID-19, the health of women generally is adversely impacted through the reallocation of resources and priorities, including sexual and reproductive health services. As the COVID-19 pandemic deepens economic and social stress coupled with restricted movement and social isolation measures, gender-based violence is increasing exponentially. Many women are being forced to 'lockdown' at home with their abusers at the same time that services to support survivors are being disrupted or made inaccessible economy, security to social protection, the impacts of COVID-19 are exacerbated for women and girls simply by virtue of their sex[42]. Additionally, the social and economic costs of violence against women and girls are substantial, with broader costs associated with delivering services to victims, as well as the costs related to the criminal justice response. The global cost of violence against women and girls (public, private and social) is estimated at approximately 2 per cent of global gross domestic product (GDP), or US\$1.5 trillion in the world [32; 42].

As mounting evidences showed, outbreaks exacerbate age, gender and disability inequalities and place women, girls, and other vulnerable populations-such as LGBTQIA individuals at increased risk of gender-based violence (GBV) and intimate partner violence (IPV). In fact, IPV may be the most common type of violence that women and girls experience during emergencies [43], resulting in profound physical and psychosocial harm. In the event of COVID-19 outbreaks in development and humanitarian settings, IPV incidents may surge if movement restrictions or quarantine measures are put in place [44].

Hence, it can be understood that, there is a high risk of GBV

increasing, during the COVID-19 pandemic as movement restrictions trap women and children [45].

Notably, in lockdown and violence, as important as mandatory lockdowns, quarantine, and self-isolation are these measures can have harmful effects on those in already violent situations. Individuals, particularly women are essentially trapped with their abuser with no physical respite from the abusive relationship [46]. The abuser can also use the virus to further isolate their victim from family, friends, and social networks as well as from the services that could support them [47]. Where women have access to technology, on-line violence against women is also increasing. Before COVID-19, one in 10 women in the European Union reported having experienced cyber-harassment since the age of 15 (including having received unwanted, offensive and sexually explicit emails or SMS messages or offensive, inappropriate advances on social networking sites)[48].

Likewise, during COVID-19 and moving restrictions, the use of online platforms has increased in the last few weeks. This has been used by some as an opportunity to groom young people into exploitative situations. According to Europol, online activity by that seeking child abuse material is increasing [49].

As we already know, some countries have imposed mass quarantine and travel restriction measures for people entering their territory, which may entail confinement in accommodation in conditions that place women and their children at a heightened risk of violence, among other challenges. As distancing measures are put in place and people are encouraged to stay at home, the risk of intimate partner violence is likely to increase [50].

This is similar during the 2014–16, West African outbreak of Ebola virus disease; gendered norms meant that women were more likely to be infected by the virus, given their predominant roles as caregivers within families and as front-line health-care workers [51]. Women were less likely than men to have power in decision making around the outbreak, and their needs were largely unmet [52]. For example, resources for reproductive and sexual health were diverted to the emergency response, contributing to a rise in maternal mortality in a region with one of the highest rates in the world [53]. In similar manner, during the Zika virus outbreak, differences in power between men and women meant that women did not have autonomy over their sexual and reproductive lives[54], which was compounded by their inadequate access to health care and insufficient financial resources to travel to hospitals for check-ups for their children, despite women doing most of the community vector control activities[55].

Basically, the acute and emergency maternal and reproductive health services may be hit hardest, with limited facilities for isolation areas to assess and care for women in labour and the newborn. Lifesaving procedures, from caesarean sections to abortion care, may be delayed due to staff deployment and shortages and lack of infrastructure, e.g. operation theatres and ward space. Women who have to spend time recovering in hospital wards in low-income countries are often reliant on relatives for food and care, making isolation and infection control measures difficult and intensifying the risks of COVID-19 spread. The effects of the pandemic could also affect routine health care services. Clinic appointments are rare in low-income settings and people can wait long hours at crowded clinic waiting areas for antenatal care, contraceptive counseling or other reproductive



health services, which will increase risk of infection transmission. Cancellation of routine clinics may be necessary with deployment of staff away to acute care. Those most disadvantaged may incur costs, suffer travel for long distances and other inconveniences needlessly, or even not attend for care at all [5; 55].

Findings indicates that, this reduction in contraceptive use could have dire consequences for women, from 325,000 unintended pregnancies, the estimate for minimal disruptions for 3 months, up to a staggering 15 million unintended pregnancies if high disruptions are seen for a period of 12 months [56]. The impact of COVID-19 on ending unmet need for family planning, women are refraining from visiting health facilities due to fears about COVID-19 exposure or due to movement restrictions and, supply chain disruptions are limiting availability of contraceptives in many places, and stock-outs of many contraceptive methods are anticipated within the next 6 months in more than a dozen lowest-income countries. It has also a product shortages and lack of access to trained providers or clinics mean that women may be unable to use their preferred method of contraception, may instead use a less effective short-term method, or may discontinue contraceptive use entirely. Some 47 million women in 114 low- and middle-income countries are projected to be unable to use modern contraceptives if the average lockdown, or COVID-19-related disruption, continues for 6 months with major disruptions to services [33; 56].

In terms of labour force, women comprise more than 75 percent of the health care workforce in many countries [57], which increases the likelihood that they will be exposed to infectious diseases. Evidence suggests that during past public health emergencies, resources have been diverted from routine health care services toward containing and responding to the outbreak. Research has also shown that 70% of workers in the health and social sector are women [58]. Tragically, maternal health is already a critical issue for women around the world: 61% of maternal deaths worldwide occur in fragile states, many of them affected by conflict and recurring natural disasters [59]. Adolescent girls, who have unique SRH needs, may be particularly affected. In addition to the caregiving burden, social norms in some contexts dictate that women and girls are the last to receive medical attention when they become ill, which could hinder their ability to receive timely care for COVID-19. This could have serious implications for older women or those with chronic conditions or weakened immune systems such as women infected with HIV, malaria, or tuberculosis-who appear to be at greater risk of contracting COVID-19 or for women and girls experiencing malnutrition [60].

However, in emergency settings, female health workers are at heightened risk to both routine and severe violence. Some forms of violence in the world of work affect women uniquely, such as “maternity harassment” or “maternal mobbing” which is widespread around the world [61]. As the current study findings pointed out, the optimal management of pregnant women with COVID-19 poses multiple challenges, ranging from screening for the virus on admission to labor and delivery, management of the acutely ill parturient, anesthesia, and protection of healthcare personnel. Although originally thought that pregnant women with COVID-19 were no more likely to develop severe morbidity or die, recent reports suggest that a subset may develop multiple organ failure and even die. Given that normal pregnant women have evidence of increased generation of thrombin and a

prothrombotic state, as well as increased intravascular inflammation which is exaggerated in the context of infection, such patients may be at an increased risk for thrombosis when affected by COVID-19[62].

In case of the household power, women’s health care is not determined solely by the provision of health-care treatments, but also by whether women have free and safe access to such services [63]. WHO also estimates, more than 30% of women worldwide have experienced either physical or sexual partner violence [27; 28]. 7% of women worldwide have experienced non-partner sexual assault [64]. As findings pointed out, the issues of sexual exploitation and abuse is also another crucial problem in COVID-19 pandemic outbreak. An overall economic downturn can result in a spike in sexual exploitation and abuse. At-risk groups-such as those women among others-who are struggling financially may be forced or coerced to provide sex in exchange for food [65].

This was seen during the West Africa Ebola outbreak, with single female-headed households at additional risk [66]. Emerging evidences as well as research undertaken following the West Africa Ebola outbreak, suggests that the COVID-19 pandemic has the potential to increase the risks of sexual exploitation and violence by state officials and armed guards [67].

The Zika virus outbreak in 2015 provides one example. Infection with Zika virus causes pregnancy complications and specifically, congenital deformities in fetal brain development, with microcephaly. In Latin America, the epidemic sparked a debate on the need to extend abortion laws to protect women’s rights to safe abortion [68], and raised concerns of reproductive and social justice which continue to this day [69]. The Ebola virus outbreak in West Africa between 2014 and 2016 revealed that, gendered norms of women as family caregivers and frontline health workers led them to be at higher risk of infection [69].

As the findings also showed, in the clinical course of Middle East Respiratory Syndrome coronavirus (MERS-Cov) infection in a pregnant woman who acquired the infection during the last trimester of pregnancy during a large hospital outbreak, the severity of viral pneumonia in pregnancy is evidently related to physiological and immunological changes that result in a shift from cell-mediated to humoral-mediated immunity. Pregnant women with severe acute respiratory syndrome (SARS) appear to have a worse clinical outcome and a higher mortality rate compared to non-gravid women [70; 71]. Rates of maternal mortality, stillbirth, spontaneous abortion, and preterm delivery have all been elevated in viral pneumonia such as influenza-A, virus subtype H1N1, and SARS. While there are no clinical or serologic reports suggesting transmission of SARS coronavirus to the fetus, vertical transmission has been reported for H1N1 and Respiratory Syncytial Virus (RSV) [72].

However, economically, following travel bans, border closures and quarantine measures, many workers cannot move to their places of work or carry out their jobs, which have knock-on effects on incomes, particularly for informal and casually employed workers especially women and girls due to the COVID-19 pandemic outbreak[73].

Globally, women perform 76.2% of the total hours of unpaid care work, more than three times as much as men. During public health crises, such as COVID-19, this may involve taking care of sick family members. As health systems-particularly weak ones-become overwhelmed, women will likely bear the burden of caring for patients that the health system cannot, increasing



women's risk of exposure to the virus [74].

EU also noted that, COVID-19 has an impact on persons in a number of vulnerable situations, namely: people living in institutional settings, including nursing homes, prisons and refugee camps or reception facilities; particular groups, including persons with disabilities, older people, Roma and Travellers, and women and children at risk of domestic violence. Measures such as physical distancing are not effective in overcrowded settings, yet failure to contain the spread of COVID-19 in such institutions, poses serious risks to the right to health, and sometimes even to life [75].

Violence is already highly stigmatized, as a result of which women, girls, and sometimes their families fear reporting or seeking services or justice. The stigma combines with an overall lack of trust in the ability or motivation of providers and justice systems to provide redress and further discourages women. Any response-based intervention must address women's trust of and access to the service provider and be sensitive to the possibility that reporting may induce further violence [76].

In case of women's voices, women should not be further burdened, particularly since much of their labour during health crises goes underpaid or unpaid [26]. That said, incorporating women's voices and knowledge is critical at all stages of outbreak preparedness and response. Social norms and gender roles often restrict women's ability to participate in decision-making processes, and this impacts the degree to which their specific needs are taken into consideration, both during the response itself and later, during the design and implementation of economic relief packages, new services, or other support systems [77].

Globally, 1 in 3 women worldwide have experienced physical and/or sexual violence by an intimate partner or sexual violence by any perpetrator in their lifetime. Most of this is intimate partner violence. Older women and women with disabilities are likely to have additional risks and needs. The health impacts of violence, particularly intimate partner/domestic violence, on women and their children are significant. Violence against women can result in injuries and serious physical, mental, sexual and reproductive health problems, including sexually transmitted infections, HIV, and unplanned pregnancies [40]. However; it has become apparent that most cases of COVID-19 are the result of dissemination of the virus from asymptomatic individuals. Similarly, it increases the risk of COVID-19 transmission from mother to her infant or to other obstetrical patients on a shared antepartum or postpartum unit [78].

Meanwhile, the COVID-19 pandemic continues to spread rapidly and unpredictably on a global scale. Developing countries and countries in humanitarian crisis that have no proper economic and health infrastructure will suffer the most [79]. Due to this rationale, in the face of violence, there is a gap between the humanitarian response in emergency situations and the failures of the relevant institutions to tackle and respond to every day GBV [80]. As mounting evidences and history shows, in such pandemics, social inequality, particularly gender inequality is even more pronounced. Therefore, it is important that measures taken against the pandemic are gender-sensitive and that the positioning of different groups in society and the economy are considered, avoiding further deterioration of the situation, especially for marginalized groups. States are confronting the Coronavirus through emergency measures, but these do not always consider the different needs of women and men [55; 80].

## Conclusions and Recommendations

Pandemic outbreaks, crises and times of unrest have been linked to increased interpersonal violence, including incidence of violence against women and children (VAW/C). Here, violence against women and girls is a global human rights violation and public health problem, and a substantial development challenge. It affects women throughout the world and is a universal issue, with great impact on victims/survivors, their families, and communities. The economic impact of COVID-19 result to the increment of financial strain on communities particularly in segments of the population that are already vulnerable especially women. Violence against women can result in injuries and serious physical, mental, sexual and reproductive health problems, including sexually transmitted infections, HIV, and unplanned pregnancies. The COVID-19 pandemic is also expected to increase levels of violence. Projections show that if violence increases by 20 per cent during periods of lockdown, there would be an additional 15 million cases of intimate partner violence or domestic violence in 2020 for average lockdown duration of 3 months. There is a high risk that all forms of gender-based violence (GBV) will increase during the COVID-19 pandemic, creating more demand and greater need for services. Therefore, it makes recommendations to be considered by all sectors of society, from governments to international organizations and to civil society organizations in order to prevent and respond to violence against women and girls, at the onset, during, and after the public health crisis with examples of actions already taken. It also considers the socio-economic impact of the pandemic and its implications for violence against women and girls in the long-term.

## Abbreviations and Acronyms

**COVID-19**; Novel Coronavirus Respiratory Disease-19 ;**CDC**: Centers for Disease Control and Prevention ; **UNECA**:UN Economic Commission for Africa; **UNOCHA**:UN Office for the Coordination of Humanitarian Affairs; **GBV**: Gender Based Violence; **VAW**/Violence against women/girls ; **FGM/C**: Female Genital Mutilation or Cutting; **HTP**: Harmful Traditional Practices; **HIV/AIDS**: Human Immune virus/Acquired immune Deficiency syndrome; **UNHCR**: UN High Commissioner for Refugees; **RSV**: Respiratory Syncytial Virus; **PHEIC**: Public Health Emergency of International Concern; **MERS-CoV** Middle East Respiratory Syndrome-Corona virus (MERS-CoV); **SARS-CoV**: Severe Acute Respiratory Syndrome; **ECDC**: European Centre for Disease Prevention and Control; **UNHROC**: United Nations Human Rights Office of the Commissioner; **UNODC**; **EU**: European Union; **ILO** :International Labour Organization; **SIDA**: Swedish International Development Agency; **SRH**: sexual and Reproductive health; **WHO**: World Health Organizations; **UN**: United Nations; **UNFPA**: United Nations Fund for Population Agency; **UNICEF**: United Nations International Cultural and Educational Fund; **USAID**: United State Agency for International Development.

## Ethics approval and consent to participate

Not applicable

## Consent for publication



Not applicable

### Competing of interests

The authors have declared, there is no conflict of interest regarding the concepts and methodological parts of the study.

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### Availability of data and materials

Not applicable

### Author Contributions

EK is who conducted the selection of available studies for systematic review, drafted the first structure of the study, read and wrote based on the guidelines and the standards of the journals. Finally, all procedures and tasks throughout the development of the manuscript have been carried out by the author solely.

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