

## **“A LITERATURE REVIEW WITH THE PURPOSE OF PRODUCING A SYNTHESIS ON THE DIRECT AND INDIRECT EFFECTS OF THE PANDEMIC ON PREGNANT WOMEN AND MOTHERS”.**

**SIRISHA CHELVA<sup>1</sup>, DR. SUDHA SINGH MOHEY<sup>2</sup>**

**DEPARTMENT OF NURSING**

**<sup>1,2</sup>SHRI VENKATESHWARA UNIVERSITY, GAJRAULA (UTTAR PRADESH)**

### **Abstract:**

COVID-19 introduced a multitude of threat factors that influence the mental well-being of perinatals. Significant threat factors encompass the risks, lack of clarity regarding health risks (e.g., the potential effects of COVID-19 on the results of pregnancies). Examining the existing scholarship on the outbreak's immediate and long-term effects on expectant moms and women is the goal of the research project. The method used involves mapping the body of research on both the immediate and lasting impacts of COVID-19 affecting the health of women by conducting a scoping assessment that adheres to the structure that is described. The findings of two investigations involving expectant women admitted to institutions in China were comparable. The study found that pregnant participants had an increased threat of composite morbidity, were inclined to need ventilatory support and been hospitalised to the critical care unit for treatment.

**Keywords:** COVID-19, maternal health, perinatal

### **1. Introduction**

Pandemic for expectant women and mothers, considering the numerous disruptions to daily life caused by containment and also prevention measures. Throughout the annals of pandemic history, there are several instances of infectious diseases emerging and progressing to epidemic proportions, along with the possibility of a pandemic (Baral et al., 2022). The enduring repercussions of confronting this crisis remain severe to this day. Present-day

civilization is vulnerable to the Novel Corona Virus Disease. Despite advances in technology, modern apparatus, inventions, updated knowledge, and the proliferation of social media, the progression of COVID-19-related events towards a "pandemic" has not been averted. "Worldwide spread of a new disease" is how the World Health Organization (WHO) characterizes a pandemic (Lim et al., 2024).

## **2. Material and method**

A review of the scope was conducted using the approach described above to map the body of research examines the effects of COVID-19, both direct and indirect, affecting the health of mothers.

The inquiry included English-language literature published between January 1, 2020, and September 11, 2020. The objective of this scoping review was to promptly incorporate swiftly evolving evidence.

The study employed an exploratory methodology to perform a scoping research on two topics:

(a) Interventions for the prevention, mitigation, and treatment of perinatal mental health disorders that are anticipated to be addressed about COVID-19; and

(b) Suggestions for further research on public health interventions relevant to the pandemic.

In order to ensure comprehensiveness, we also provide a synopsis of the recommendations put forth by the authors themselves concerning essential additional research in the field of public health that may contribute to our understanding of perinatal mental health prevention, mitigation, and treatment.

To interpret and analyze the data, frequency analysis has been implemented. In addition, ANOVA and regression tools were utilized to assess the efficacy of total quality management practices pertaining to pediatric care services in developing countries.

### 3. Result and Discussion

#### 3.1 “A literature review was conducted with the purpose of producing a synthesis on the direct and indirect effects of the pandemic on pregnant women and mothers”.

Expectant women contaminated with COVID-19 could display a lower level of complaints comparison to the normal population and can receive an RT-PCR false result, although exhibiting evidence of viral pneumonia. Anticipatory those infection with COVID-19 appear not to apparent greater severity of illness than non-expectant individuals; instead, their children may be more predisposed to forming SARS-CoV-2. The company look to have a greater frequency of preterm deliveries, babies with low birth weights, emergency C-sections, and NICU registration than others in the community. Nevertheless, the research characteristics and the clinical relevance associated with these imaging data associated with them remain unclear.

**Table 3.1 “Literature review on the direct and indirect effects of the pandemic on pregnant women and mothers”.**

“Author, Year”	Title	“Type of Article”	Topic	Geographic area of focus	Sample Size	Conclusions
Delahoy, September 2020	“Characteristic s and Maternal and Birth Outcomes of	MMWR, population sur-	“Direct effects on pregnancy”	“United States”	598	There is possibly a pregnant women are more susceptible to a significant

	Hospitalized Pregnant Women with Laboratory-Confirmed COVID-19”	veillance of 13 states				coronavirus infection.
“Wu et al., June 2020”	“Clinical Manifestation and Laboratory Characteristics of SARS-CoV-2 Infection in Pregnant Women.”	Peer-reviewed, retrospective study	Direct effects on pregnancy	China	8	Besides additional imaging characteristics in computed tomography of the chest, close monitoring of laboratory parameters is necessary to avoid, identify, and manage infections with “SARS-CoV-2” while pregnant.
“Xu et al., April 2020”	“Clinical Presentations and Outcomes of SARS-CoV-2 Infected Pneumonia in Pregnant	Peer reviewed, retrospective study	“Direct effects on pregnancy”, intrauterine	China	5	“Pregnant women” infected with COVID-19 exhibited a higher incidence of lymphopenia and eosinopenia in

	Women and Health Status of Their Neonates.”		transmission			pregnant women unaffected by COVID-19.
“Smith et al., June 2020”	“Maternal and Neonatal Outcomes Associated with COVID-19 Infection: A Systematic Review.”	Peer reviewed, systematic review	“Direct effects on pregnancy”, intrauterine transmission, “labor and delivery”	China	N/A	Although expectant woman experiencing COVID-19 infection may exhibit symptoms of viral pneumonia, they may still test negative for the test results of RT-PCR, which is uncommon. There is evidence of a greater rate of C-sections performed early deliveries, low-weight babies, and NICU hospitalisations than in the total population.
“Knight et al., June 2020”	“Characteristic and Outcomes of	Peer reviewed,	“Direct effects on preg-	United Kingdom	427	The majority of hospitalized expectant women

	Pregnant Women Admitted to Hospital with Confirmed SARS-CoV-2 Infection in UK”	population cohort study	pregnancy”, intrauterine transmission			who contracted “SARS-CoV-2” were in their late second or even early third trimester. The majority suffered favorable results, and SARS-CoV-2 baby spread appeared unusual.
“Allotey et al., September 2020”	“Clinical Manifestations, Risk factors, and Maternal and Perinatal Outcomes of Coronavirus Disease 2019 in Pregnancy:”	Peer reviewed, systematic “review and meta-analysis”	Direct effects on pregnancy	Global	11,432	Compared to women who are not pregnant but are of a reproductive age, expecting or lately young women are more likely to need medical therapy in the event that they get COVID-19. It seems that a large body mass index, later mom age, and previous illness are all warning signs for severe COVID-19.

“Pereira et al., July 2020”	“Clinical Course of Coro- navirus Disease-2019 in Pregnancy.”	Peer reviewe d, retrospe c- tive study	Direct effects on preg- nancy, intrauterin e transmissi on, “labor and delivery”, breastfeedi ng and infant contact	Spain	60	The clinical trajectory of the majority of expectant women infected with COVID-19 was favorable.. There were no evidence of horizontal or even vertical transmissions in the neonates while they were in labor or even breastfeeding.
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Instances of adverse effects arising from CoV-2 infection in the mother during pregnancy are exceedingly rare. Likewise, a study conducted in October 2020 that examined “400,000 women aged 15 to 44 with symptomatic COVID-19” discovered that expectant women had an increased threat of requiring intensive care unit admittance, intubation, mechanical ventilation, and death.

#### 4. Conclusion

Although comprehensive research on this matter is still in progress, preliminary findings the low risk of transmission from mom to baby in prenatal and via mother's milk suggest that women will likely be disproportionately affected by the financial and social impacts of Covid-19 is well documented. Pregnancy may appear to be an especially susceptible period for

COVID-19 infection; however, this must be confirmed through the implementation of meticulously planned and executed research. Additionally, research on There is little postpartum mortality or illness. comprehensive microbiological investigations must record. This scoping review examined the latest reviews pertaining to perinatal health and COVID-19, offering recommendations on prevention, mitigation, treatment, and further research in this area.

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