



HEB

## Journal of Hospital Pharmacy

An Official Publication of Bureau for Health & Education Status Upliftment  
(Constitutionally Entitled As Health-Education, Bureau)

JOHP

### Review of Vertical transmission of SARS-Cov-2 and Management of COVID-19 during and after pregnancy

Dipak B. Bari<sup>1</sup>, Chandrakantsing V. Pardeshi<sup>2</sup>, Shubhangi R. Vinchurkar<sup>3</sup>, Lalita S. Chaudhari<sup>4</sup>,  
Megha S. Jadhav<sup>1</sup>, Krishna P. Shelkar<sup>1</sup>, Sanjay J. surana<sup>5</sup>, Swapnali B Bari<sup>6</sup>, Dipak A Patil<sup>7</sup>.

1. Department of Pharmaceutics (D. Pharmacy), R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur 425405, India
2. Industrial Pharmacy Laboratory, Department of Pharmaceutics, R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur 425405, India
3. Ex Asst. Prof. Pharmaceutics. K. E. S's Late Shri P C Bhandarkar College of D Pharmacy, Amalner, 425401, India
4. Ex Asst. Prof. Quality Assurance, K. E. S's Late Shri P C Bhandarkar College of D Pharmacy, Amalner, 425401, India
5. Principal, R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur 425 405, Maharashtra, India
6. Gynecologist, Pirence Dr. Vikhe Patil Memorial Aayurvedic Hospital & Research Centre, Tal- Rahata, Ahemadnagar
7. Radiologist. Varad Diagnostic Center, Amalner, Dist: Jalgaon.

#### \*Corresponding authors:

Dipak B. Bari, Asst. Professor, Department of Pharmaceutics (D. Pharmacy), R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur 425405, India 425201, [barideepak7@gmail.com](mailto:barideepak7@gmail.com)

[Email Id: serviceheb@gmail.com](mailto:serviceheb@gmail.com)

#### ABSTRACT

The vertical transmission (in utero and intrapartum) of SARS-CoV-2 seems to occur possibly in the third trimester of the pregnancy in the minority of cases of maternal COVID-19 infection. The present review is the state-of-the-art collection of data relevant to the vertical transmission of SARS-CoV-2 and the clinical management of Covid-19 before and after pregnancy. A couple of case studies confirming the vertical transmission of SARS CoV-2 have been explained herein to demonstrate the possibility of the transmission from the mother to the fetus, during the antepartum and intrapartum periods, or to the neonate during the postpartum period via the placenta in utero, body fluid contact during childbirth, or through direct contact owing to breastfeeding after birth. Diagnosis and preventive care to be taken during and after pregnancy have been illustrated briefly. A possible line of treatment for Covid-19-positive pregnant women has been provided for the reader's expedition.

#### KEYWORDS

COVID-19, Pandemic disease, SARS-Cov-2, Vertical transmission.

#### Access this Article Online

Website: <http://www.journalofhospitalpharmacy.in>

Quick Response Code:

Received on 26/10/2023  
Accepted on 18/11/2023 © HEB All rights reserved



#### ABBREVIATIONS

SARS-Cov: Severe Acute Syndrome Corona Virus,  
MERS-Cov: Middle East Respiratory Syndrome Corona Virus, ACE2: Angiotensin Converting Enzyme 2,  
TMPRSS2: The type II transmembrane serine protease.