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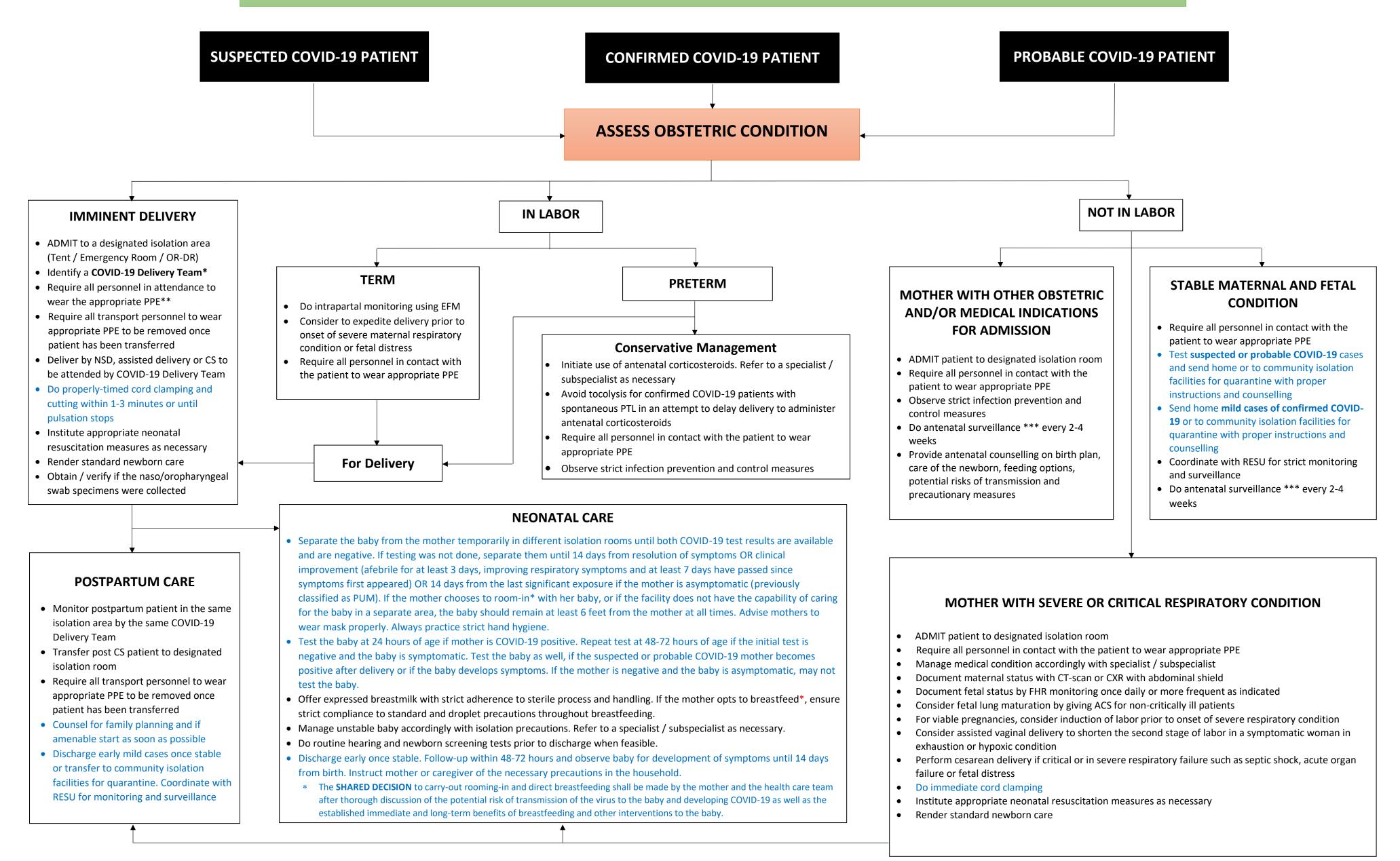






PHILIPPINE INFECTIOUS DISEASES SOCIETY FOR OBSTETRICS AND GYNECOLOGY * PHILIPPINE SOCIETY OF MATERNAL FETAL MEDICINE PHILIPPINE SOCIETY OF NEWBORN MEDICINE * PEDIATRIC INFECTIOUS DISEASE SOCIETY OF THE PHILIPPINES

CLINICAL APPROACH TO THE MANAGEMENT OF COVID-19 IN PREGNANCY AND THE NEWBORN



Legend: COVID-19 – Corona Virus Disease 2019; PUI – Patient Under Investigation; PUM – Persons Under Monitoring;

PPE – Personal Protective Equipment; ACS – Antenatal Corticosteroids; PTL – Preterm Labor; RESU – Regional Epidemiology and Surveillance Unit

- * COVID-19 Delivery Team Obstetrician (1-2); Pediatrician (1-2); Anesthesiologist (1); Nurse (1-2)
- ** Appropriate Personal Protective Equipment 1. Well-fitting N95 mask (fit-tested); 2. Eye protection (goggles or face shield);
- 3. Impermeable gown; 4. Surgical gloves; 5. Shoe cover. The reader is referred to the Guidelines on Infection Control for COVID-19.

 *** Antenatal Surveillance Growth monitoring, AFI with UmA doppler; Detailed anatomic scan at 18-24 weeks for infection acquired during 1st and early 2nd

<u>DISCLAIMER</u>: This guideline was formulated through a collaborative effort from the above professional societies mainly to guide clinicians who will be handling COVID-19 in this special population. The recommendations were made after careful review of currently available limited published data with the consensus of a panel of experts. We will be updating this guideline accordingly as more information becomes available as this disease is still evolving. This can be adopted and modified based on your institution's capacity and standing policies.

References:

- 1. Academy of Breastfeeding Medicine, ABM STATEMENT ON CORONAVIRUS 2019 (COVID- 19) March 10, 2020, (Retrieved from https://www.bfmed.org/abm-statement-coronavirus 12 March 2020)
- 2. Alfaraj SH, Al-Tawfiq JA, Memish ZA. Middle East Respiratory Syndrome Coronavirus (MERSCoV) infection during pregnancy: Report of two cases & review of the literature. J Microbiol Immunol Infect 2019 Jun;52(3):501-3.
- 3. American College of Obstetricians and Gynecologists Practice Advisory: Novel Coronavirus 2019 (COVID-19), March 13, 2020
- 4. Breslin N., et al, Coronavirus Disease 2019 infection among asymptomatic and symptomatic pregnant women: two weeks of confirmed presentations to an affiliated pair of New York hospitals, 2020 AJOG MFM, https://doi.org/10.1016/j.ajogmf.2020.100118
- 5. Centers for Disease Control and Prevention. Interim Considerations for Infection Prevention and Control of Coronavirus Disease 2019 (COVID-19) in Inpatient Obstetric Healthcare Settings. 2020. (Retrieved from: https://www.cdc.gov/coronavirus/2019ncov/hcp/ 12 March 2020)
- 6. Chandrasekharan, P. et al, Neonatal Resuscitation and Postresuscitation Care of Infants Born to Mothers with Suspected or Confirmed SARS-CoV-2 Infection, American Journal of Perinatology, April 8, 2020, DOI https://doi.org/10.1055/s-0040-1709688
- 7. Chen H, Guo J, Wang C, Luo F, Yu X, Zhang W, et al. Clinical characteristics and intrauterine vertical transmission potential of COVID-19 infection in nine pregnant women: a retrospective review of medical records. Lancet. 2020;395(10226):809-15. Epub 2020/03/11. doi: 10.1016/S0140-6736(20)30360-3. PubMed PMID: 32151335 (Retrieved 12 March 2020)
- 8. Chen Y, Peng H, Wang L, Zhao Y, Zeng L, Gao H et al. Infants Born to Mothers With a New Coronavirus (COVID-19). Front. Pediatr., 16 March 2020. https://doi.org/10.3389/fped.2020.00104 (Retrieved 17 March 2020)
- 9. Clinical Practice Guideline Perinatal-Neonatal Management of COVI-19 Infection Ver.1.0, Federation of Obstetric & Gynecological Societies of India, National Neonatology Forum, India, Indian Academy of Pediatrics, March 26, 2020
- 10.DOH AO No. 2020-0013. Revised Guidelines for the Inclusion of the Coronavirus Disease 2019 (COVID-19) in the List of Notifiable Diseases for mandatory reporting to the Department of Health. April 9, 2020
- 11.DOH AO No. 2020-0146. Adoption of POGS, PPS, PIDSOG, PSMFM, PSNbM and PIDSP Clinical Approach to the Management of COVID-19 in Pregnancy and the Newborn. March 30, 2020
- 12.Dotters-Katz S & Hughes BL. Society for Maternal Fetal Medicine. Coronavirus (COVID-19) and Pregnancy: What Maternal-Fetal Medicine Subspecialists Need to Know 13 March 2020 (Retrieved from: https://s3.amazonaws.com/cdn.smfm.org/media/2262/COVID19_PDF.pdf 12 March 2020)
- 13. Guillaume Favre, et al, Guidelines for pregnant women with suspected SARS-CoV-2 Infection, www.thelancet.com, March 3, 2020, DOI: https://doi.org/10.1016/S1437-3099(20)30157-2.
- 14. Huaping Zhu, et al, Clinical analysis of 10 neonates born to mothers with 2019-nCoV pneumonia, Transl Pediatr. 2020 Feb; 9(1): 51-60; doi: 10.21037/tp.2020.02.06.
- 15. Huijun Chen, et al, Clinical characteristics and intrauterine vertical transmission potential of COVID-19 Infection in nine pregnant women: a retrospective review of medical records, www.thelancet.com Vol 395, March 7, 2020.
- 16. Infection Prevention and Control Guidance for Neonates, Alberta Health Services, Maternal Newborn Child & Youth Strategic Clinical Network, April 17, 2020 Version 12.0
- 17. Japanese Society for Neonatal Health and Development. Recommended measures to a new type coronavirus infection in newborn infants. Feb 28, 2020.
- 18. Korean Society of Neonate (KSN). Coronavirus Infection-19 Neonatal Care Born from Confirmed or Suspected Patients Manual for Neonates. March 4, 2020.
- 19.Lu Qi, MD, PhD and Shi Yuan, MD, PhD. Coronavirus disease (COVID-19) and neonate: What neonatologist need to know, Journal of Medical Virology, February 26, 2020.
- 20.Na Li, et al, Maternal and neonatal outcomes of pregnant women with COVID-19 pneumonia: a case-control study, https://doi.org/10.1101/2020.03.10.20033605.
- 21. Munoz, AC, et al, Late-Onset Neonatal Sepsis in a Patient with COVID-19, The New England Journal of Medicine, April 22, 2020, DOI: 10.1056/NEJMc2010614
- 22. Poon et al. ISUOG Interim Guidance on 2019 novel coronavirus infection during pregnancy and puerperium: information for healthcare professionals. 2020.
- 23. Poupolo, Karen, et al, Management of Infants Born to Mothers with COVID-19, American Academy of Pediatrics Committee on Fetus and Newborn, Section of Neonatal Perinatal Medicine, and Committee on Infectious Diseases, April 2, 2020
- 24. Rasmussen S, Smulian J, Lednicky J, et al. Coronavirus Disease 2019 (COVID-19) and Pregnancy: What obstetricians need to know. American Journal of Obstetrics and Gynecology 2020 doi: https://doi.org/10.1016/j.ajog.2020.02.017.
- 25. Royal College of Obstetrics and Gynecology (RCOG). Coronavirus (COVID-19) Infection in Pregnancy. Version 2. 13 March 2020.
- 26. Royal College of Pediatrics and Child Health. (RCPCH). COVID-19 guidance for paediatric services. 13 March 2020.
- 27.Schwartz, David A. An Analysis of 38 Pregnant Women with COVID-19, Their Newborn Infants, and Maternal-Fetal Transmission of SARS-CoV-2 Infections and Pregnancy Outcomes. Archives of Pathology and Laboratory Medicine; doi: 10.5858/arpa.2020-0901-SA.
- 28.Schwartz, David A. Potential Maternal and Infant Outcomes from Coronavirus 2019-nCoV (SARS-CoV-2) Infecting Pregnant Women: Lessons from SARS, MERS, and Other Human Coronavirus. Viruses, February 10, 2020.
- 29. Shaoshuai Wang et, al, A Case Report of Neonatal COVID-19 Infection in China.
- 30. Sutton, D, et al., Universal Screening for SARS-CoV-2 in Women Admitted for Delivery, The New England Journal of Medicine, April 13, 2020, DOI:10.1056/NEJMc2009316
- 31. Trevisanuto, D. et al., Neonatal Resuscitation Where the Mother Has a Suspected or Confirmed Novel Coronavirus (SARS-CoV-2) Infection: Suggestion for a Pragmatic Action Plan, Neonatology, April 24, 2020, DOI: 10.1159/000507935
- 32. Wong SF, Chow KM, Leung TN, Ng WF, Ng TK, Shek CC, et al. Pregnancy and perinatal outcomes of women with severe acute respiratory syndrome. Am J Obstet Gynecol 2004 Jul;191(1):292-7.
- 33. WORLD HEALTH ORGANIZATION (WHO). Clinical management of severe acute respiratory infection (SARI) when COVID-19 disease is suspected Interim guidance 13 March 2020 (Retrieved 15 March 2020).
- 34. Yan Chen, et al, Infants Born to Mothers with a New Coronavirus (COVID-19), Case Report, Frontiers in Pediatrics, March 16, 2020, doi: 10.3389/fped.202.00104.
- 35.Zhu H, Wang L, Fang C, Peng S, Zhang L, Chang G et al. Clinical analysis of 10 neonates born to mothers with 2019-nCoV pneumonia. Transl Pediatr. 2020;9(1):51-60. Epub 2020/03/11. doi: 10.21037/tp.2020.02.06. PubMed PMID: 32154135; PMCID: PMC7036.

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