



COVID19 PANDEMIC: COMPARISON OF MATERNAL-FETAL OUTCOMES BETWEEN FIRST AND SECOND WAVES

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INTRODUCTION

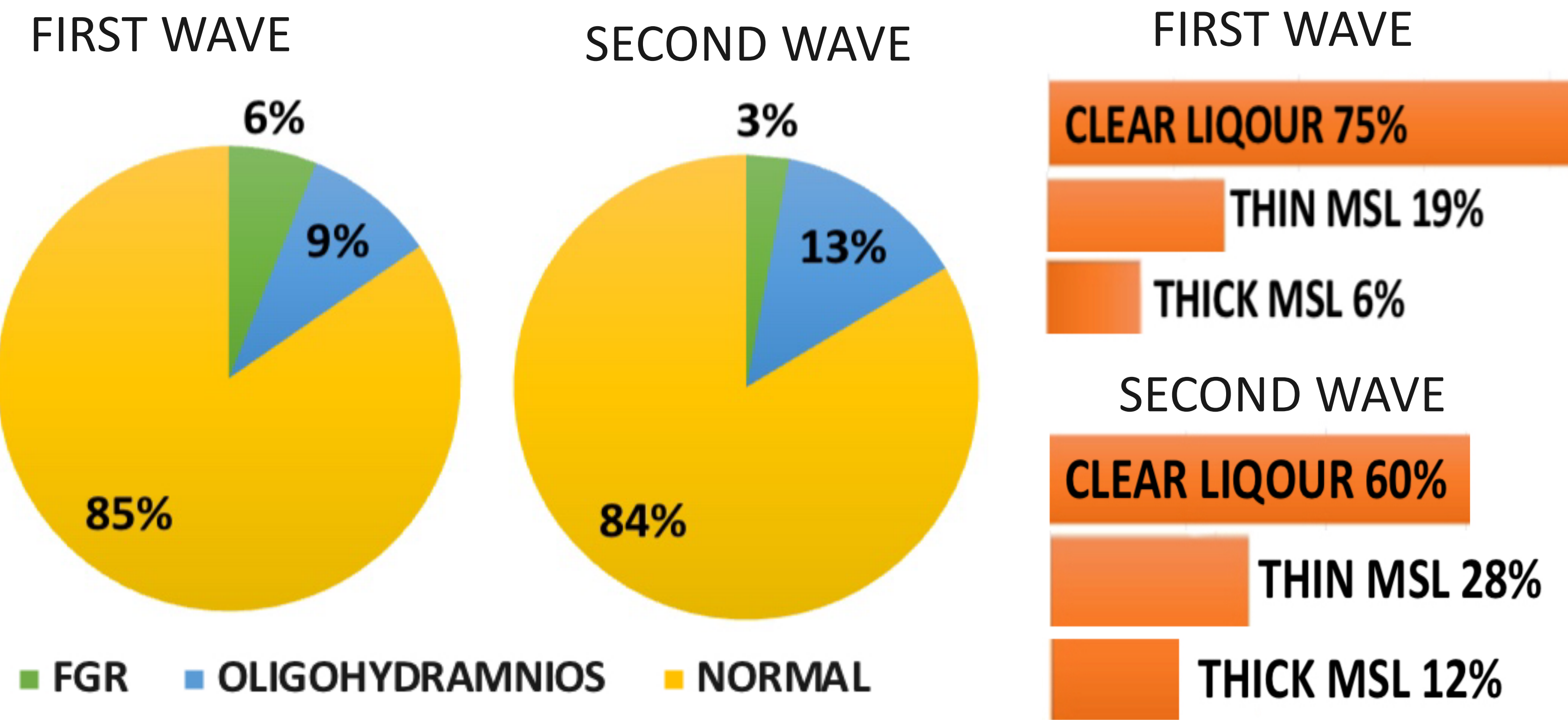
The first and second waves of the COVID19 pandemic in India both brought unique obstetric challenges. While the first wave of the unprecedented pandemic left the healthcare community perplexed and alarmed, the second wave brought along severe symptoms and fulminant deterioration. Study of the varied presentation of COVID19 can prepare us to deal with future waves effectively.

STUDY DESIGN

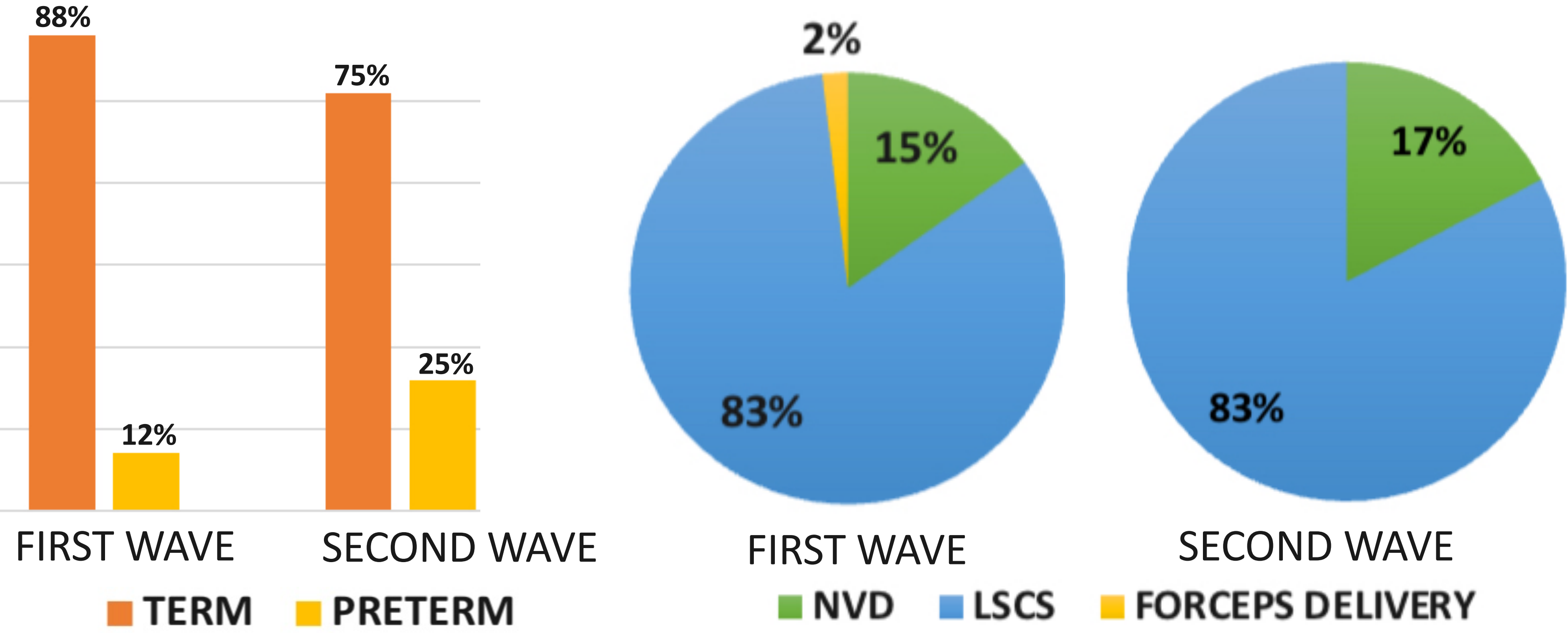
Objective: To observe and compare the maternal and fetal outcomes in pregnant patients who tested COVID positive in the first and second wave at a tertiary care hospital in suburban south India.

Methodology: This is a retrospective observational study. In the first wave, 65 pregnant patients tested positive for COVID19 between May 2020 to November 2020. In the second wave, 67 pregnant patients tested positive between March 2021 and August 2021.

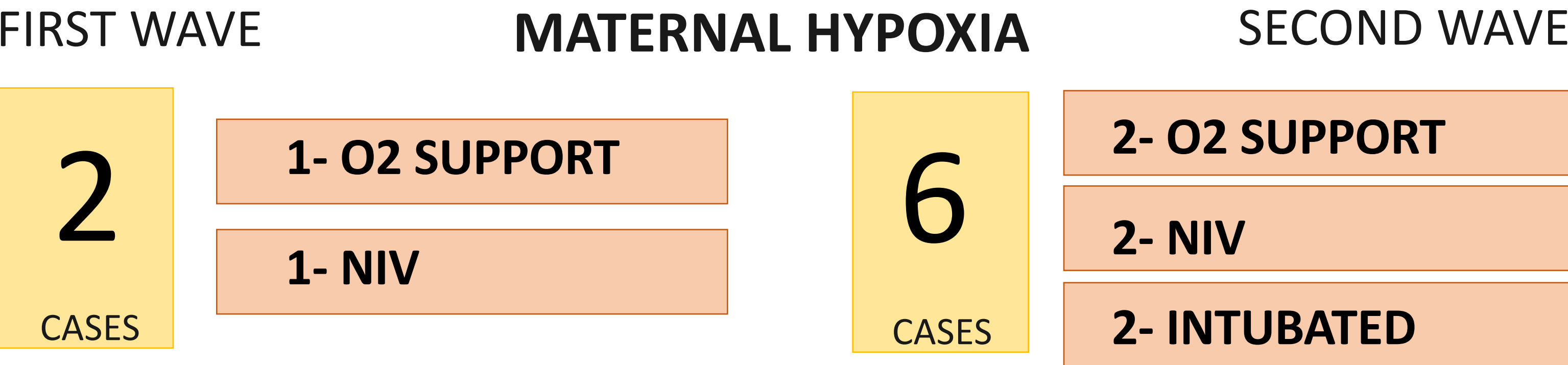
GROWTH AND LIQOUR



MODE OF DELIVERY

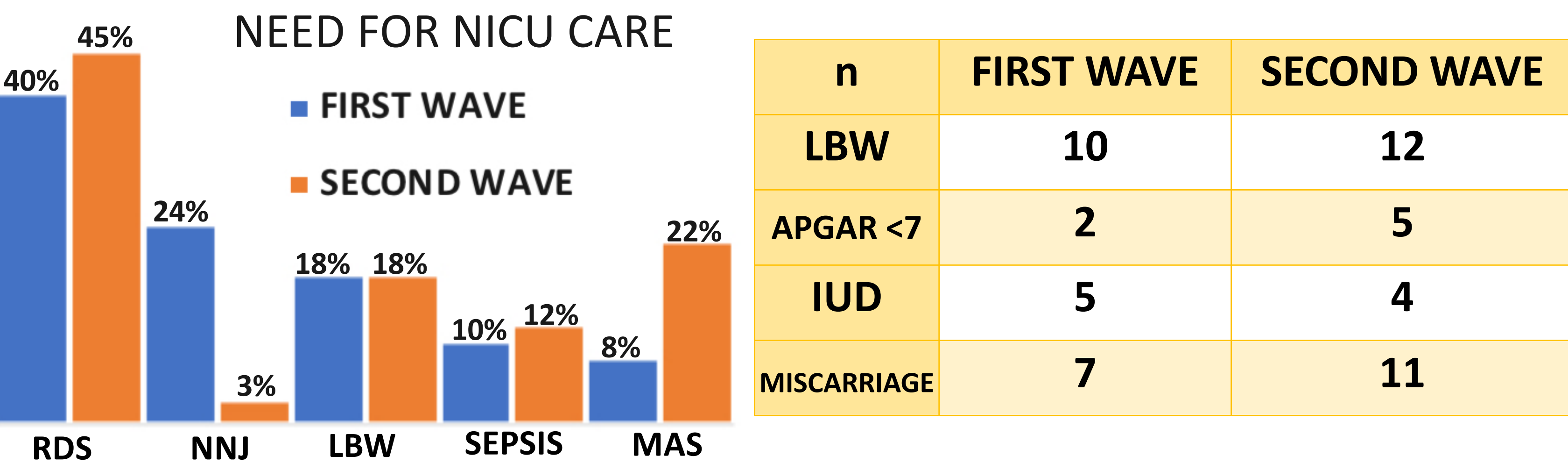


MATERNAL OUTCOMES

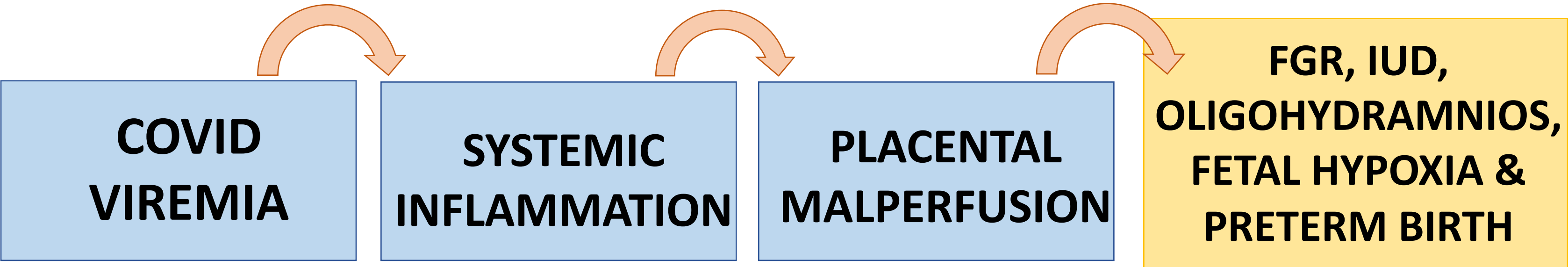


The 2nd wave had two cases of COVID associated maternal mortality.
Cause of death: Respiratory failure and COVID myocarditis

FETAL OUTCOMES



PATHOGENESIS



DISCUSSION

The severity of maternal infection was greater in the second wave in comparison with the first; **9% of the population developed hypoxia in the second wave versus 3% in the first wave.** None of the mothers who developed hypoxia were vaccinated. Neonatal morbidity was also higher as **42% of babies required NICU care in the second wave versus 32% in the first.** The severity of infection could be attributed to the **Delta B.1.617** strain and it's virulent course in the second wave in comparison to the Alpha B.1.1.7 variant in the first wave.

CONCLUSION

In comparison, the second wave of the pandemic was associated with more unfavourable maternal and fetal outcomes. This study can help guide our approach to obstetric care in future outbreaks.

REFERENCES

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2. Zayet S, et al Increased COVID-19 severity among pregnant patients infected with SARS-CoV-2 Delta variant, France. Emerg Infect Dis. 2022
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