

Perinatal outcomes in maternal super-obesity: A population-based cohort study in Qatar

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RATIONALE

Maternal obesity increases the risk of hypertensive diseases of pregnancy, gestational diabetes, thromboembolism, operative delivery, neonatal outcomes, including hypoglycaemia, respiratory distress, admission to intensive care, and neonatal death. Super-obesity (BMI ≥ 50.0 kg/m²) has not been not studied in the multiethnic population in Qatar with high prevalence of obesity.

AIM: This study aims to evaluate maternal and fetal outcomes in women with an antenatal BMI ≥ 50 kg/m² (exposed) compared with pregnancies in women with a BMI ≤ 30 kg/m² (unexposed).



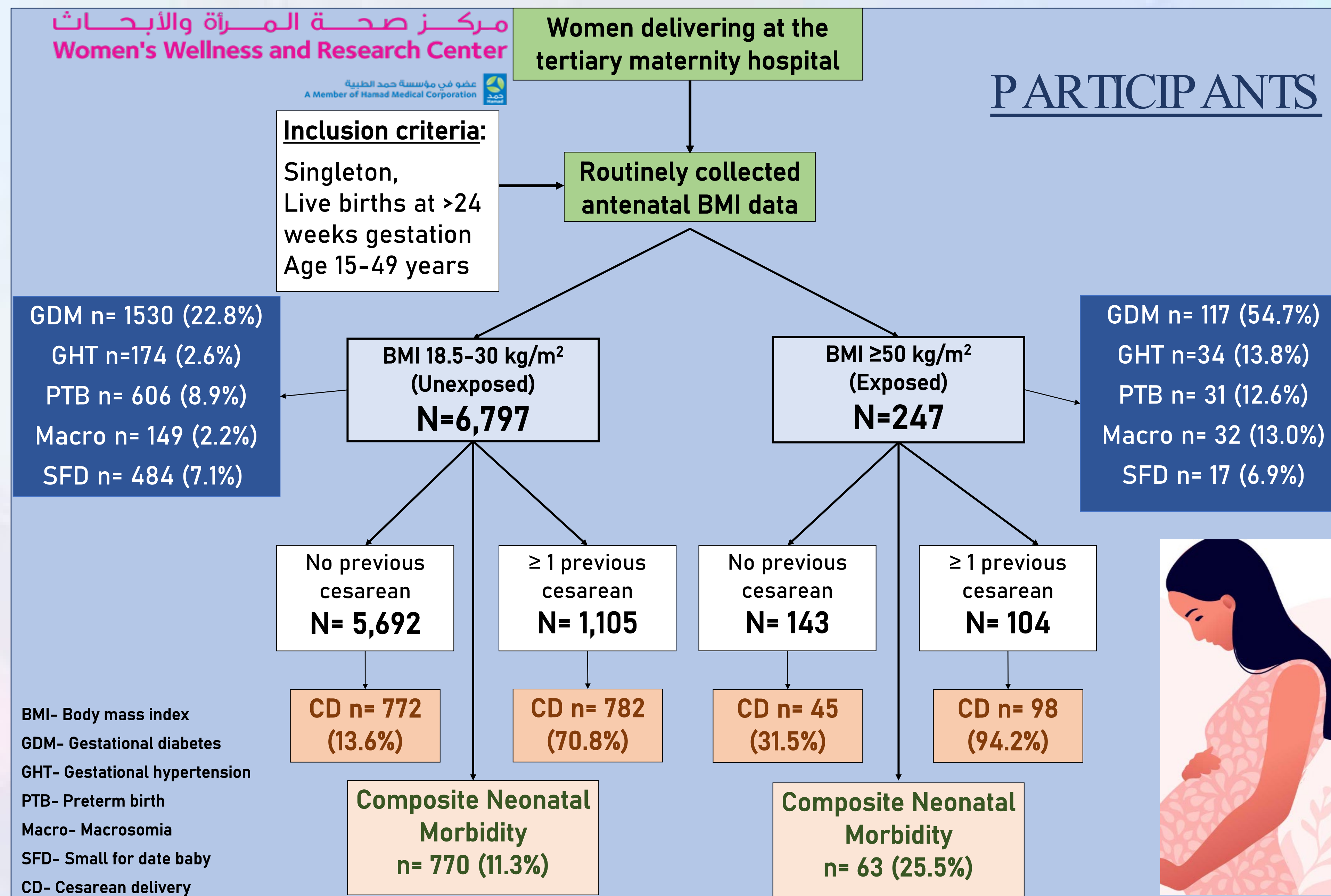
Non-Obese (18.5-30.0) ↔ **Super Obese (≥ 50.0)**

STATISTICAL ANALYSIS

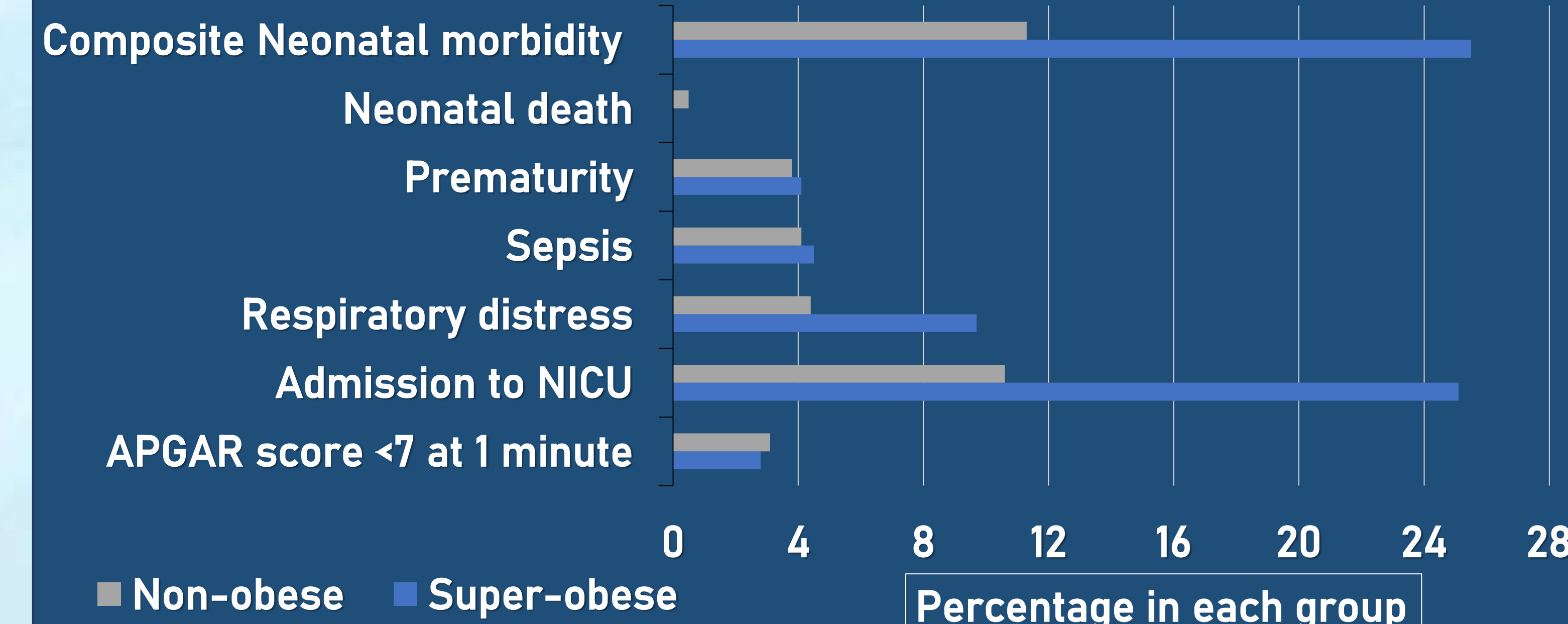
Multivariable logistic regressions models were used to adjust outcomes for important confounders:

Log(odds of outcome)= Adjusted OR+ Maternal age+ Maternal parity+ Preexisting medical illness+ Previous caesarean+ Maternal nationality+ History of bariatric surgery

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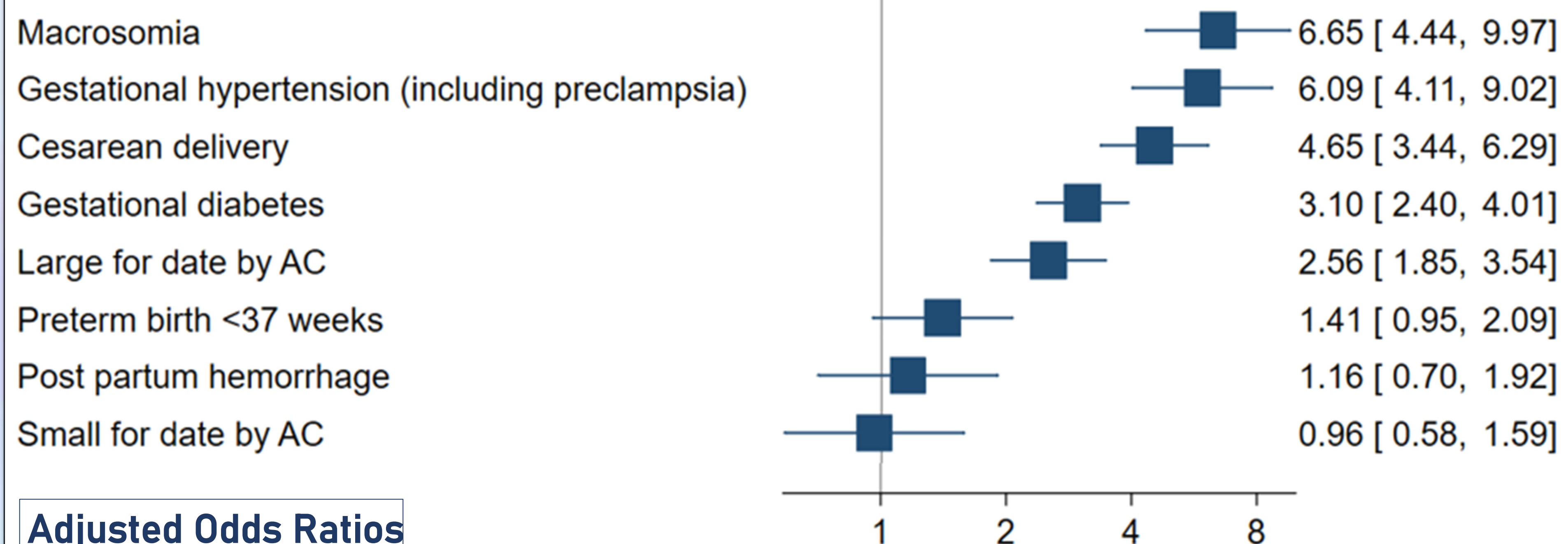


CONCLUSION

Super obesity increases the risk of caesarean delivery, gestational diabetes, gestational hypertension, macrosomia baby, and neonatal morbidity. The results emphasize the importance of adequate weight reduction and pre-existing disease control before conception to reduce maternal and neonatal morbidity and impact on healthcare and financial resources.

Super Obese vs Non-Obese

RESULTS



References

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