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A Retrospective Study on the Maternal, Fetal and Renal Outcomes of Viable Pregnancies Complicated by Renal Diseases

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Objectives : Almost 3% of pregnant women are affected by kidney diseases globally. There is a paucity of objective data from developing world on the maternal, fetal and long term renal outcome of pregnancies complicated by renal diseases as well as effect of renal transplantation on pregnancy.

Our aim is to look into the effect of renal diseases including glomerular, tubular, interstitial and vascular disorders on pregnancy outcomes and the effect of pregnancy on long term renal outcome

Methods : In total data on 122 viable pregnancies with renal dysfunction other than lupus nephritis between 2012 and 2021 was collected from the labour room data registry at a single tertiary health care centre in south India.

Results : The mean age at conception was 27.16 ± 4.841 . The most common glomerular disease affecting pregnancy in our study was IgA Nephropathy followed by Focal Segmental Glomerulosclerosis(FSGS). Mean gestational age at delivery was 35.07 ± 3.95 indicating that most of the pregnancies resulted in preterm delivery. 47.5% of pregnancies were complicated by hypertensive disorders with 25.4% developing pre-eclampsia. 53.3% of babies born to mothers with renal diseases had low birth weight which was more than twice the national average of 17.06%. There was only a slight increase in median creatinine from 0.89 (IQR, .61-1.43) at the time of conception to 0.94(IQR, .60-1.74) at the time of last follow up

Conclusions : Renal diseases affecting pregnant women complicate the pregnancy and delivery by causing increased rate of gestational hypertensive disorders including pre-eclampsia, preterm labour, caesarean sections and low birth weight babies. however the effect of pregnancy on long term renal outcome was not significant. To the best of our knowledge this is largest study from a developing country which has included the effect of renal diseases with etiologies ranging from glomerular, tubular and vascular diseases to renal transplantation on pregnancy