

Clinical study on risk factors and fetomaternal outcome of severe pre-eclampsia in Bangabandhu Sheikh Mujib Medical University

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Background: Pre-eclampsia (PE) is a leading cause of morbidity and mortality among mothers and infants. The aim of this study was to determine the maternal risk factors and fetomaternal outcome of severe pre-elampsia.

Methods: A total of 100 patients were recruited. Patients with singleton pregnancy between 28 to 40 weeks of gestation with severe pre-eclampsia were selected as cases. A questionnaire including patient's age, gestational age, parity, family history of hypertension, weight and body mass index (BMI), was completed for each patient. Maternal complications before or after delivery, and perinatal outcome were also recorded. And finally data analysis was done.

Results: Among cases and controls, age>34 years, BMI, history of preeclampsia, were found significant ($p<0.05$) between the two groups. In case group, 2 patients developed eclampsia, 3 abruptio placenta, 2 HELLP syndrome, 4 ascites, and 1 oliguria; 7 patients developed PPH and 3 pulmonary edema. In the control group, 5 developed PPH and 1pulmonary edema. In case group, 5 babies had very low birth weight (<1.5 kg) and 21 had low birth weight (<2.5 kg). In control


group only 8.0% had low birth weight. 56.0% had APGAR score 4-6 at one minute in case group and 24.0% in control group. In case group 17 babies developed birth asphyxia and 15 babies developed prematurity, where as in control group 7 babies developed birth asphyxia and 3 developed prematurity. 32 newborns needed admission in NICU in cases and 10 in controls ($p<0.05$). 35 babies could be taken home safely in case group as compared to all babies in control group. Early neonatal death was found in 5 and still birth in 10 in case group; none found in control group ($p<0.05$).

Conclusion: Maternal and fetal outcome are worse in sever preeclampsia.

Speaker Biography

Aklima Sultana has completed her Fellowship in Gynaecology and Obstetrics at the age of 33 She is trained in basic and advanced laparoscopy both from nation and abroad. She also has basic training on colposcopy. Currently is an assistant professor of Obstetrics and Gynaecology at Chattogram Maa O Shishu Hospital Medical College where she teaches medical students and manages over 350 patients per week.

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