Middle cerebral to umbilical artery Doppler ratio in prediction of neonatal outcome in women with preeclampsia
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Objective
Study on the diagnostic value of the Doppler resistance index of middle cerebral artery (MCA) and umbilical artery (UA) ratio and its correlation to predict fetal distress IUGR associated with pre-eclampsia.

Methods
124 patients with pre-eclampsia at the Obstetrics & Gynaecology Department of Hue University Hospital were included in a prospective cohort study.

Results
The mean RI of MCA was 0.74 (0.161) and of the UA was 0.67 (0.093). The Doppler resistance index of MCA/UA ratio < 1 was very high (76.9%) in the group with fetal distress and 71.4 % in the IUGR group. The Doppler resistance index of MCA/UA had a close relation to abnormal fetal outcome after delivery.

Conclusion
An abnormal CRI/URI ratio is a very good predictor of adverse fetal outcome, like fetal distress and IUGR, in the fetuses of women with preeclampsia.