

## **Predictors of neonatal morbidity in pregnancies with antenatal HELLP (haemolysis, elevated liver enzymes, low platelets) syndrome**

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### **Objective**

To evaluate clinical parameters at presentation of antenatal HELLP (haemolysis, elevated liver enzymes, low platelets) syndrome for the subsequent neonatal adverse outcome.

### **Methods**

Antenatal diagnoses of HELLP syndrome (n=94) were included over a 5-year period. Maternal characteristics and laboratory data at presentation including parity, gestational age, blood pressure, hematocrit, leukocyte count, platelet values, serum alanine and aspartate aminotransferases, and proteinuria were retrieved. A logistic regression model with backward elimination was constructed to predict composite neonatal morbidity (sepsis, requirement for antibiotherapy, convulsions, intracranial haemorrhage, hypoglycaemia, hypocalcaemia, hyperbilirubinemia, meconium aspiration syndrome, and respiratory distress syndrome).

### **Results**

There was no neonatal mortality. Overall, 53. 2% (n=50) of the infants had suffered some morbidity. Gestational age at presentation was the only independent predictor among included variables to predict composite neonatal adverse outcome (B=-0. 285, p=0. 001).

### **Conclusion**

In pregnancies presenting with antenatal HELLP syndrome, maternal and laboratory parameters at presentation are not prognostic for subsequent neonatal morbidity. Early-onset disease seems to be the sole and strongest predictor of neonatal complications.