

Thesis Title Factors Associated with Neonatal Jaundice at
 Ramathibodi Hospital, 1991

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ABSTRACT

The main objective of this research is to determine factors related to neonatal jaundice. The study design used is the case-control study.

The univariate statistical analysis of 18 variables shows that each of the following factor was related to neonatal jaundice i.e: blood group incompatibility (OR=62.94), weight loss after 3 days (OR=2.46), duration of oxytocin infusion (OR=1.76), use of anesthesia during pregnancy (OR=0.54). The multivariate statistical analysis (stepwise logistic regression) shows that each of the following factor was related to neonatal jaundice i.e: blood group incompatibility (OR=68.81), weight loss (OR=2.88), duration of oxytocin infusion (OR=1.93), use of anesthesia (OR=0.46). The percent of R_L^2 and predicted classification are 9.18, 62.70.

The multiple logistic regression analysis of 18 variables, considering all variables are binomial distribution, shows that blood group incompatibility (OR=62.82), weight loss (OR=2.79), duration of oxytocin infusion (OR=1.70), use of anesthesia (OR=0.32)

type of delivery (OR=1.59). The percent of R_L^2 and predicted classification are 9.39, 62.14.

Without variable 'use of anesthesia', 17 variables are factors related to neonatal jaundice studied, are blood group incompatibility (OR=56.45), weight loss (OR=2.48), and duration of oxytocin infusion (OR=1.65). The percent of R_L^2 and predicted classification are 7.02, 59.71.

When delete variable 'blood group incompatibility', 17 variables are studied, factors relate to neonatal jaundice are weight loss (OR=2.65), use of anesthesia (OR=0.36) duration of oxytocin infusion (OR=1.70) and type of delivery (OR=1.45). The percent of R_L^2 and predicted classification are 3.96, 59.05.

When delete variables 'use of anesthesia and blood group incompatibility' 16 variables are studied, factors are weight loss (OR=2.38), duration of oxytocin infusion (OR=1.64). The percent of R_L^2 and predicted classification are 1.85, 55.41.