



between 8,000-10,999 baths, income between 5,000-7,999 baths and place of residence. These factors have RO's equal to 7.9, 6.5, 4.7, 3.5, 3.3, 2.9, 2.6, 2.5, 1.7 and 1.7 relatively. The estimation of the Relative Odds when using the Multiple Logistics Regression Analysis found that the factor which involves mostly with the occurrence of DM is the history of DM among family members which has RO equals to 10.0 ( $5.4 < RO < 18.6$ ) and other risk factors involved are body mass index, age, consuming alcoholic beverages every 1-2 days, number of offsprings, sex and occupation. These factors have RO's equals to 8.7, 4.9, 2.7, 2.3, 2.2 and 2.1 relatively. The predicted equation for the possibilities of DM occurrence by using Discriminant analysis yielded the following equation.

$$\begin{aligned}
 D = & - 6.8421 + 0.1954 \text{ (Body mass index)} \\
 & + 0.6027 \text{ (History of DM among family members)} \\
 & + 0.2227 \text{ (Consuming alcoholic beverage)} \\
 & + 0.0971 \text{ (Number of offsprings)} + 0.0200 \text{ (Age)} + 0.400 \text{ (Sex)} \\
 & + 0.0071 \text{ (Systolic blood pressure)} - 0.0002 \text{ (Occupation)} \\
 & - 0.0238 \text{ (Education level)} + 0.1299 \text{ (Place of residence)}
 \end{aligned}$$

This equation has statistical significance at  $p < 0.001$  which Canonical correlation equals to 0.7253 and Wilk's lambda equals to 0.4740. The cut off point of this equation is equal to 0 that is if values of all factors has substituted into the equation. Discriminant score(D) is greater than 0 then it is a study group and if less than 0 then it is control group (figure 1). This equation can estimate the percent of correctly classified value at the rate of 85.7 percent, the sensitivity at the rate of 84.3 percent and the specificity at the rate of 87.1 percent.