

**Supplementary Figure 1**: Box plot of the predictive probability of stroke (risk in 5 years) in an independent set of 7 stroke patients and 107 non-stroke patients obtained through logistic regression. Compared to the predictive probabilities obtained by the BN model plotted in Figure 3, the greater overlapping of the two distributions shows a significantly decreased discriminatory power of the logistic regression model, consistent with its lower predictive accuracy.