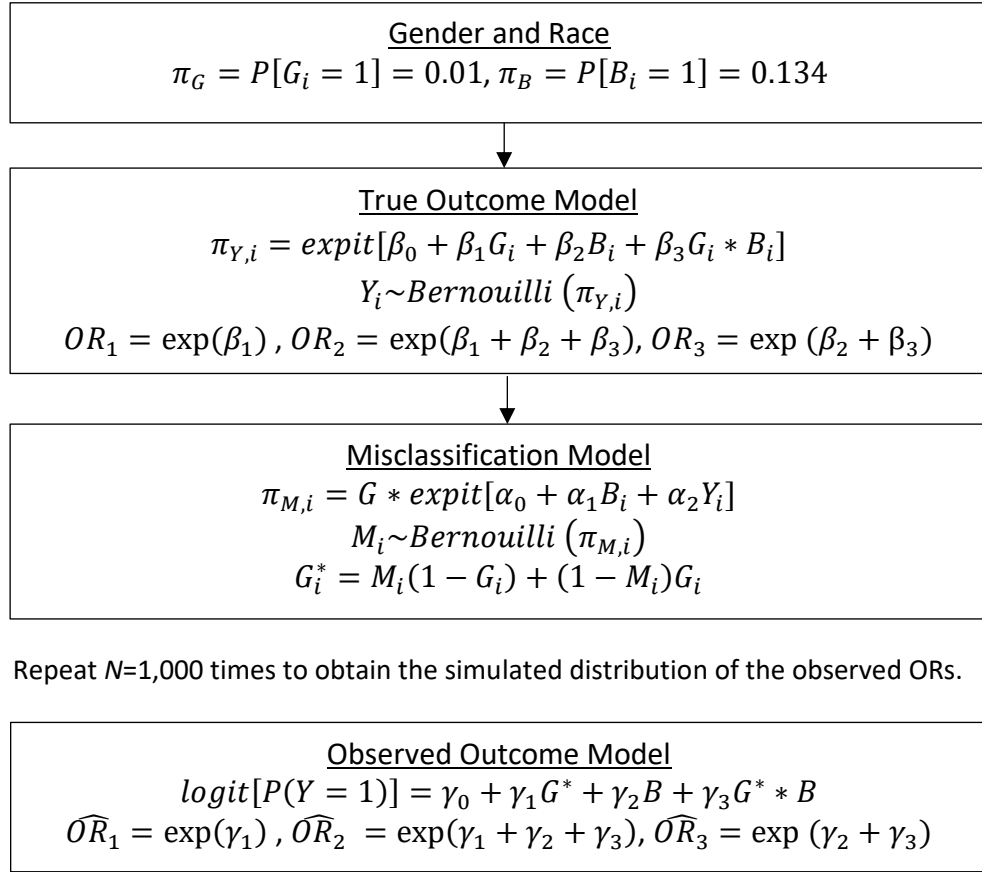


Figure 1: Data Generation Mechanism and Parameter Values

1. Simulate $n=1,000,000$ individuals.



	Parameter Values	Probability of Misclassification/Odds Ratios
Mild MC	$\alpha_0 = -2.18, \alpha_1 = 1.5, \alpha_2 = 0.45$	TW=0.10, TWY=0.15, TB=0.34, TBY=0.44
Moderate MC	$\alpha_0 = -0.85, \alpha_1 = 1.65, \alpha_2 = 0.45$	TW=0.30, TWY=0.40, TB=0.69, TBY=0.78
Severe MC	$\alpha_0 = 0, \alpha_1 = 1.8, \alpha_2 = 0.45$	TW=0.50, TWY=0.61, TB=0.87, TBY=0.91
Mild Effect	$\beta_0 = -2.5, \beta_1 = 0.41, \beta_2 = 0.27, \beta_3 = 0.24$	$OR_1=1.5, OR_2=2.5, OR_3= 1.7$
Moderate Effect	$\beta_0 = -2.5, \beta_1 = 0.7, \beta_2 = 0.24, \beta_3 = 0.24$	$OR_1=2.0, OR_2=3.8, OR_3=1.9$
Strong Effect	$\beta_0 = -2.5, \beta_1 = 1.1, \beta_2 = 0.26, \beta_3 = 0.15$	$OR_1=3.0 OR_2=6.8, OR_3=2.3$