Gain Score Linear Regression baseline/T0 and T1

$$(Y_{it} - Y_{it-1}) = \beta_0 + B_{i1}Group + B_{i2}Hospital + B_{i3}Age + B_{i4}Sex + B_{i5}Education + B_{i5}Marital + B_{i6}Employment$$

Where:

$Y_{it} = score\ of\ subject\ i\ at\ time\ t$
$\beta_0 = intercept$
$\beta_{ij} = standardized\ regression\ coefficient\ of\ independent\ variable\ j\ for\ subject\ i$

Gain Score Linear Regression Follow-up

$$(Y_{it} - Y_{it-1}) = \beta_0 + B_{i1}Hospital + B_{i2}Age + B_{i3}Sex + B_{i4}Education + B_{i5}Marital + B_{i6}Employment$$

Where:

$Y_{it} = score\ of\ subject\ i\ at\ time\ t$
$\beta_0 = intercept$
$\beta_{ij} = standardized\ regression\ coefficient\ of\ independent\ variable\ j\ for\ subject\ i$

GEE Repeated Measures Logistic Regression Model

$$\ln\left(\frac{\pi_{it}}{1-\pi_{it}}\right) = \beta_0 + B_{i1}Group + B_{i2}Time + B_{i3}\,(Group\ x\ Time) + B_{i4}Hospital + B_{i5}Age + B_{i6}Sex$$

Where:
$\pi_{it} = conditional\ probability\ that\ subject\ i\ at\ time\ t\ has\ PTSD$
$\beta_0 = intercept$
$\beta_{itj} = standardized\ regression\ coefficient\ of\ independent\ variable\ j\ for\ subject\ i$