Viral Load Table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | Frequentist | | | Bayesian | | | |
|  | | ***Estimate*** | ***95% CI*** | | ***Estimate*** | ***95% HPDI*** |
| Intercept | | -0.248 | (-1.27, 0.77) | | -0.248 | (-1.293, 0.74) |
| Hard Drugs | | 0.071 | (-0.33, 0.47) | | 0.07 | (-0.325, 0.461) |
| Age | | 0.005 | (-0.01, 0.02) | | 0.005 | (-0.007, 0.017) |
| BMI | | 0.021 | (0, 0.04) | | 0.02 | (-0.003, 0.045) |
| Adherence | | -0.466 | (-0.81, -0.12) | | -0.466 | (-0.81, -0.123) |
| Race (Other) | | -0.185 | (-0.42, 0.05) | | -0.185 | (-0.416, 0.05) |
| Education | |  |  | |  |  |
| *College Degree* | | 0.292 | (0.03, 0.56) | | 0.292 | (0.018, 0.552) |
| *> College* | | -0.066 | (-0.34, 0.21) | | -0.066 | (-0.332, 0.212) |
| Smoker | | -0.032 | (-0.25, 0.19) | | -0.032 | (-0.26, 0.186) |
| Baseline  log(Viral load) | | 0.508 | (0.4, 0.62) | | 0.508 | (0.395, 0.619) |
| Error | |  |  | | 1.255 | (1.092, 1.415) |

T Cell Table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | Frequentist | | | Bayesian | | | |
|  | | ***Estimate*** | ***95% CI*** | | ***Estimate*** | ***95% HPDI*** |
| Intercept | | 1.354 | (1.17, 1.54) | | 1.354 | (1.173, 1.537) |
| Hard Drugs | | -0.215 | (-0.28, -0.15) | | -0.215 | (-0.282, -0.15) |
| Age | | -0.001 | (0.002, 0.001) | | -0.001 | (-0.003, 0.001) |
| BMI | | 0.003 | (0, 0.01) | | 0.003 | (-0.001, 0.008) |
| Adherence | | -0.09 | (-0.15, -0.03) | | -0.09 | (-0.149, -0.03) |
| Race (Other) | | 0.015 | (-0.02, 0.05) | | 0.015 | (-0.024, 0.055) |
| Education | |  |  | |  |  |
| *College Degree* | | 0.012 | (-0.03, 0.06) | | 0.012 | (-0.035, 0.057) |
| *> College* | | 0.025 | (-0.02,0.07) | | 0.025 | (-0.264, 0.07) |
| Smoker | | -0.008 | (-0.05, 0.03) | | -0.008 | (-0.046, 0.03) |
| Baseline log(TCell) | | -0.476 | (-0.53, -0.42) | | -0.475 | (-0.29, -0.421) |
| Error | |  |  | | 0.037 | (0.032, 0.042) |

Physical Health Table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | Frequentist | | | Bayesian | | | |
|  | | ***Estimate*** | ***95% CI*** | | ***Estimate*** | ***95% HPDI*** |
| Intercept | | 17.83 | (10.63, 25.03) | | 16.702 | (10.1, 23.934) |
| Hard Drugs | | -3.552 | (-6.36, -0.74) | | -3.612 | (-6.387, -0.87) |
| Age | | -0.102 | (-0.19, -0.02) | | -0.104 | (-0.19, -0.021) |
| BMI | | 0.075 | (-0.1, 0.25) | | 0.062 | (-0.11, 0.232) |
| Adherence | | -2.086 | (-4.53, 0.36) | | -2.169 | (-4.557, 0.253) |
| Race (White) | | -0.359 | (-2.03, 1.31) | | -0.21 | (-1.867, 1.404) |
| Education | |  |  | |  |  |
| *College Degree* | | .184 | (-1.76, 2.13) | | -0.453 | (-2.328, 1.387) |
| *> College* | | -0.241 | (-2.14, 1.65) | | -0.067 | (-1.932, 1.849) |
| Smoker | | -1.426 | (-3.02, 0.17) | | 1.576 | (0.041, 3.133) |
| Baseline Physical | | -0.307 | (-0.39, -0.22) | | -0.306 | (-0.39, -0.222) |
| Error | |  |  | | 60.359 | (52.86, 68.66) |

Mental Health Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | Frequentist | | | Bayesian | | | |
|  | | ***Estimate*** | ***95% CI*** | | ***Estimate*** | ***95% HPDI*** |
| Intercept | | 17.83 | (10.63, 25.03) | | 22.105 | (15.07, 29.15) |
| Hard Drugs | | -3.552 | (-6.36, -0.74) | | -.758 | (-4.324, 2.687) |
| Age | | -0.102 | (-0.19, -0.02) | | 0.079 | (-0.027, 0.186) |
| BMI | | 0.075 | (-0.1, 0.25) | | 0.022 | (-0.194, 0.232) |
| Adherence | | -2.086 | (-4.53, 0.36) | | -2.347 | (-5.404, 0.696) |
| Race (White) | | -0.359 | (-2.03, 1.31) | | 0.043 | (-2.013, 2.113) |
| Education | |  |  | |  |  |
| *College Degree* | | .184 | (-1.76, 2.13) | | 1.761 | (-0.494, 4.191) |
| *> College* | | -0.241 | (-2.14, 1.65) | | 3.437 | (0.959, 5.798) |
| Smoker | | -1.426 | (-3.02, 0.17) | | -1.562 | (-3.518, 0.461) |
| Baseline Physical | | -0.307 | (-0.39, -0.22) | | -.522 | (-0.59, -0.453) |
| Error | |  |  | | 97.085 | (84.67, 109.9) |

DIC Table

|  |  |  |
| --- | --- | --- |
| Model | DIC (Full) | DIC (Reduced) |
| Log(Viral Load) | 1433 | 1431 |
| Log(T-Cell count) | -201 | -166 |
| Mental Health Score | 3223 | 3227 |
| Physical Health Score | 3442 | 3441 |