

Table 4: Comparison of Fixed and Random Effects Loneliness Models

	Fixed Effects				Random Effects			
	Happy	Unhappy	Happy	Unhappy	Happy	Unhappy	Happy	Unhappy
Low Loneliness	0.668 (0.65)	0.753 (0.58)	0.535 (0.49)	0.536 (0.57)	1.477*** (0.38)	0.171 (0.30)	1.598*** (0.40)	0.120 (0.32)
High Loneliness	0.273 (1.28)	1.028 (0.90)	0.493 (1.47)	0.237 (1.26)	-0.639 (1.05)	1.140* (0.45)	-0.370 (1.11)	0.878 ⁺ (0.50)
Constant					-2.184*** (0.30)	-1.175*** (0.27)	-2.080*** (0.33)	-1.715*** (0.42)
Time Effects	No	No	Yes	Yes	No	No	Yes	Yes
Observations	276		276		680		680	
Individuals	112		112		368		368	
F-Statistic	0.70		2.96		5.18		3.26	
p-value	0.603		0.029		0.002		0.010	
Hausman Test Results								
Hausman χ^2	40.460							
Hausman p-value	0.004							
Time Effect Test								
F-value _{time}	10.794				3.491			
p-value _{time}	0.000				0.039			

Standard errors in parentheses

Note: the results provided here indicate the need for a time effect control to be utilized with the main model.

In addition, the Hausman test shows that the Fixed Effects model is the most appropriate design for the purpose of the provided data.

⁺ $p < 0.10$, * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$