

Appendix 1

Table 1 - Comparison of the performance of four different Cox regression models, using different metrics of goodness-of-fit: the χ^2 statistic, AIC, and BIC with the respective p-value. In this study, all models were statistically significant at 95% and 99% confidence, with "Model 3 + TyG + SUA" demonstrating the highest performance compared to the other three. Reproduced from Zhenguo Wu *et al.*³¹ © 2023, under the terms of Creative Commons Attribution (CC BY).

	Model 3 without TyG and SUA	Model 3 + TyG	Model 3 + SUA	Model 3 + TyG +SUA
AIC	3570.26	3550.77	3547.55	3534.29
BIC	3645.28	3629.36	3629,13	3616.45
X²	Reference	21.49	24.72	39.97
df	Reference	1	1	2
p-value	Reference	<0.001	<0.001	<0.001

TyG index: triglyceride-glucose index, SUA serum uric acid, AIC Akaike information criterion, BIC Bayesian information criterion.

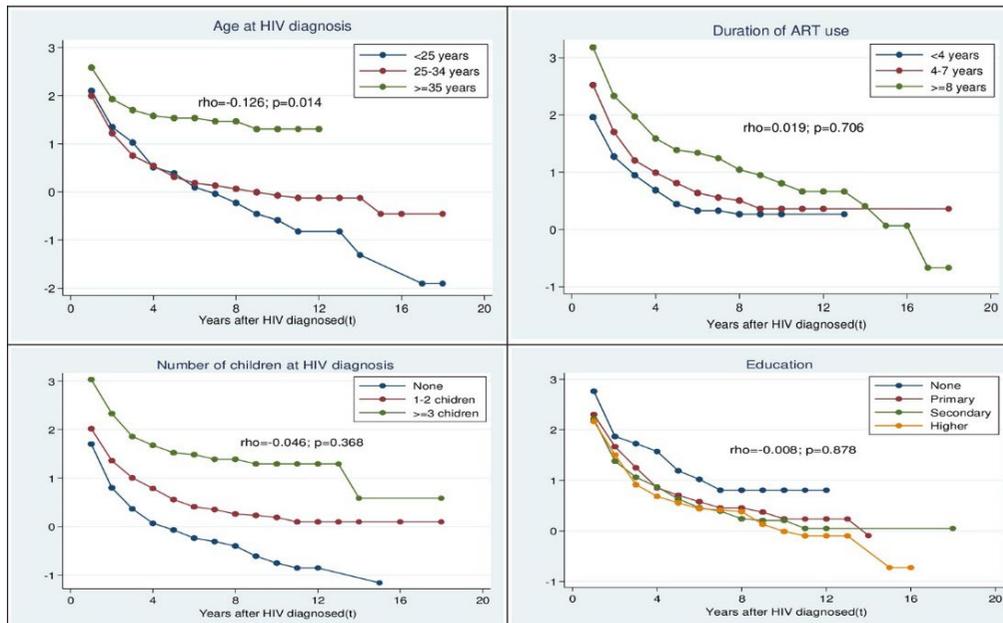


Figure 1 - Log[-log(S(t))] survival plots for each covariate. The survival curves are roughly parallel for each covariate except for age, where the blue line and red line cross each other and then diverge (p -value < 0.05), indicating a PH assumption violation. Adapted from Akinyemi *et al.*⁸ © 2020, under the terms of the Creative Commons Attribution (CC BY).

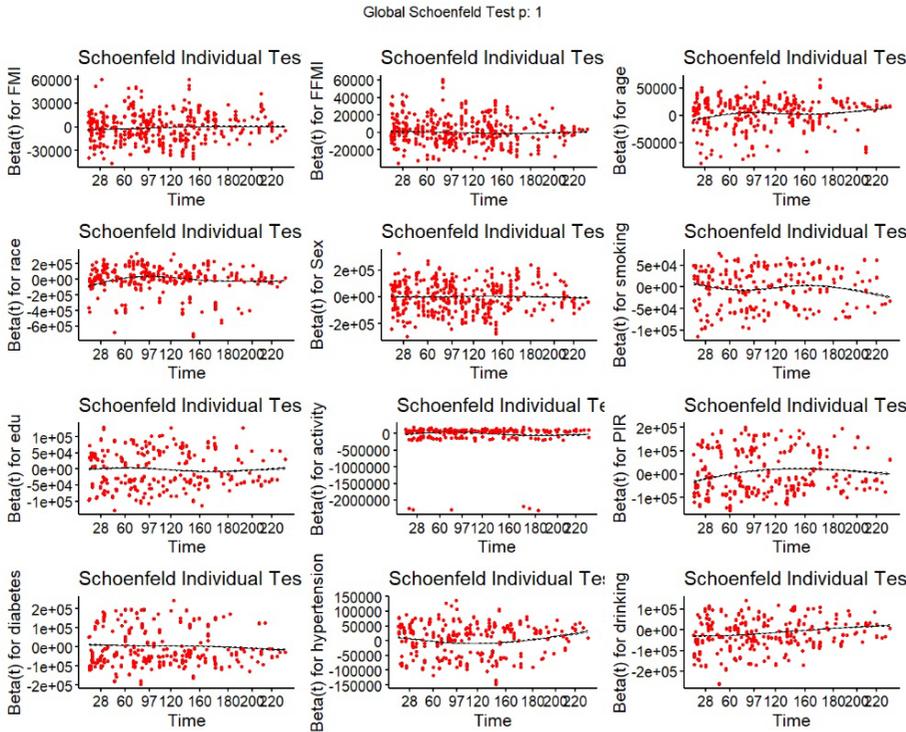


Figure 2 - Schoenfeld residuals plot for each covariate in the study models. Each red dot for each covariate is the difference between the observed value (real world) and the expected value (the value given by the model). The differences (Schoenfeld residual) should be randomly scattered. The horizontal line shows that there is no trend across time, meaning that the effect of each covariate is constant over time, verifying the PH assumption. Reproduced from Chen *et al.* ⁹© 2024 under the terms of Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International (CC BY-NC-ND 4.0).

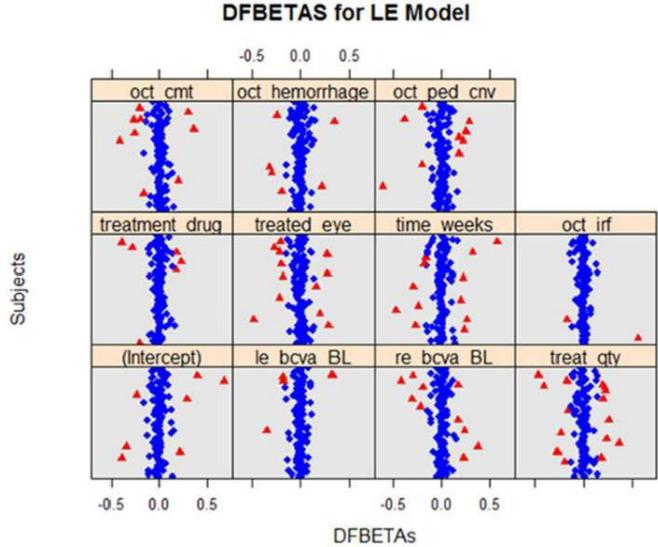


Figure 3 - DFBETAS plot. Blue dots and red triangles represent *DFBETAS* for each observation in each covariate. Red triangles refer to *DFBETAS* higher than $2/\sqrt{n}$, suggesting several potential influential points or outliers. Reproduced from Arslan *et al.* ¹⁷ © 2022, under the terms of the Creative Commons Attribution (CC BY).