## Epigenetic aging helps explain differential resilience in older adults Supplemental results

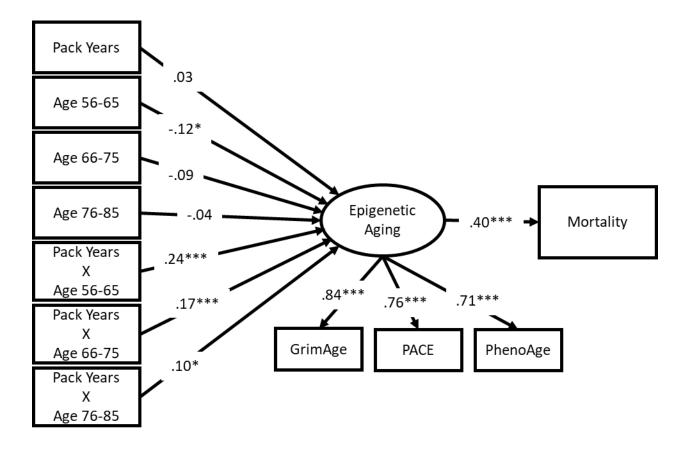


Figure S1. SEM results for Mortality with capped pack years

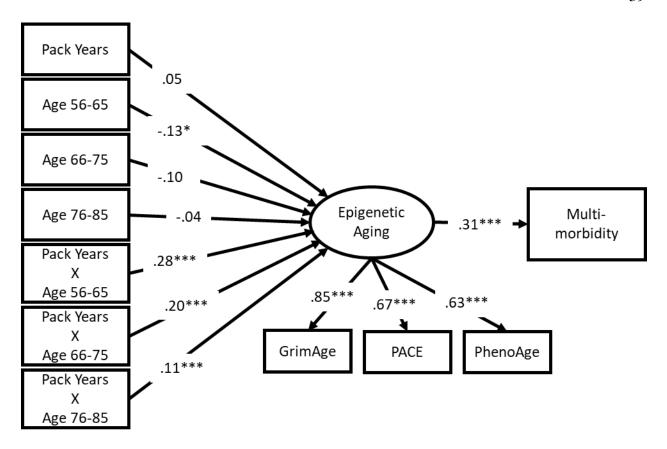


Figure S2. SEM results for Multi-morbidity with capped pack years

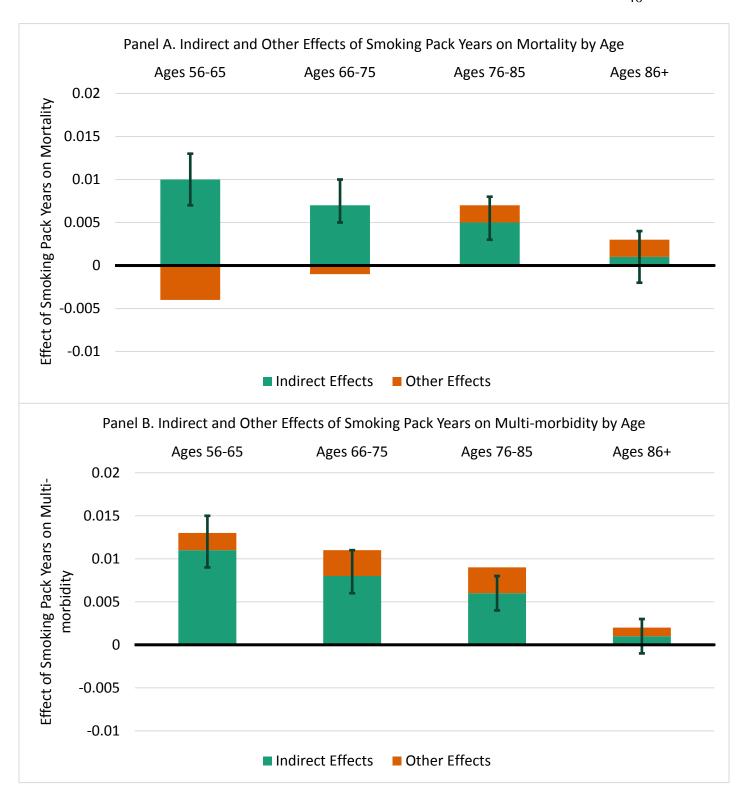


Figure S3. Moderated mediation results with capped pack years

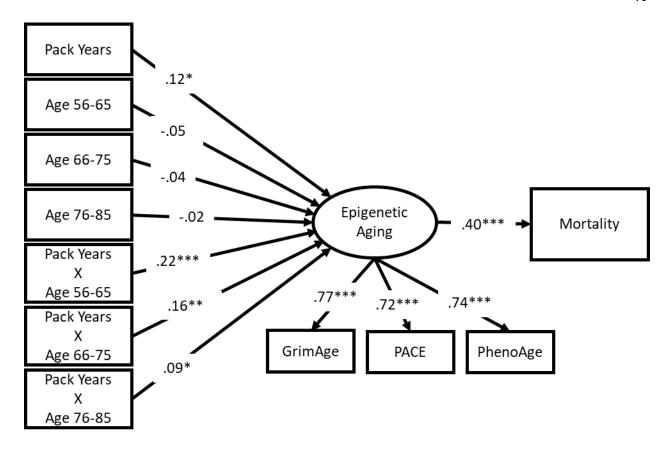


Figure S4. SEM results for Mortality with no covariates

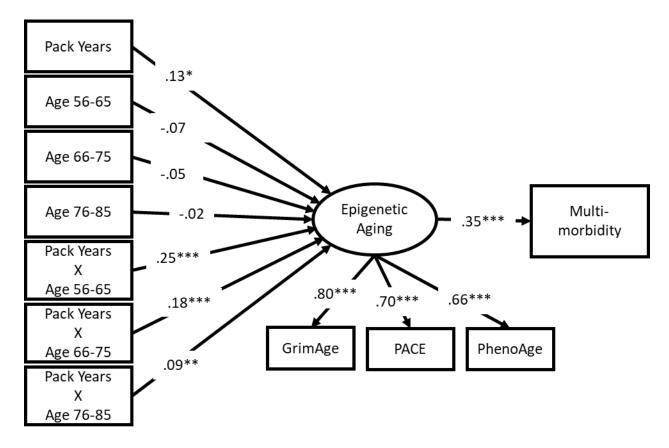


Figure S5. Multi-morbidity results with no covariates

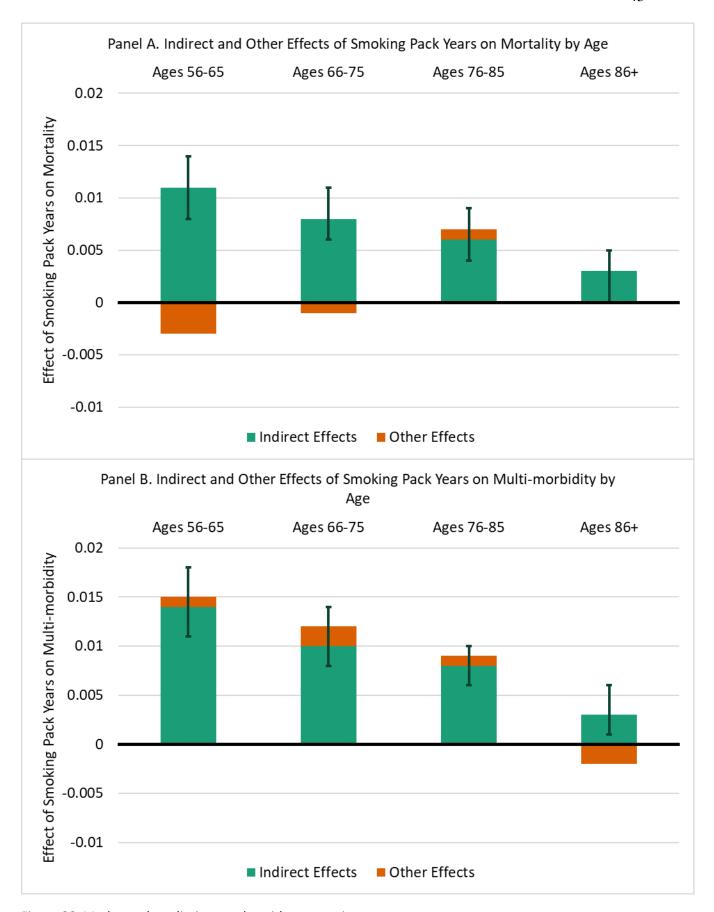


Figure S6. Moderated mediation results with no covariates

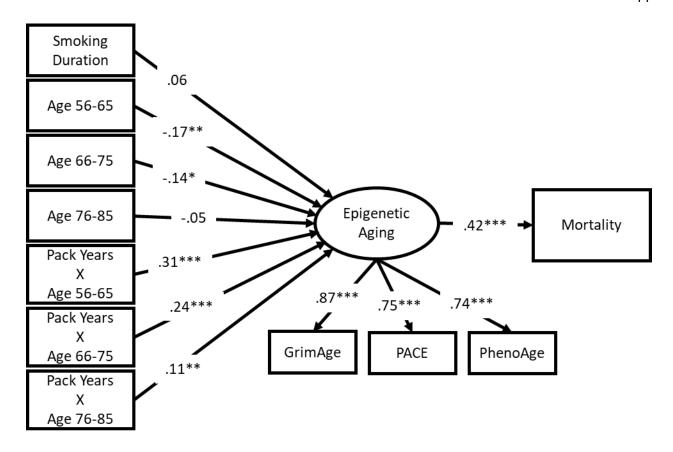


Figure S7. SEM results for Mortality using smoking duration

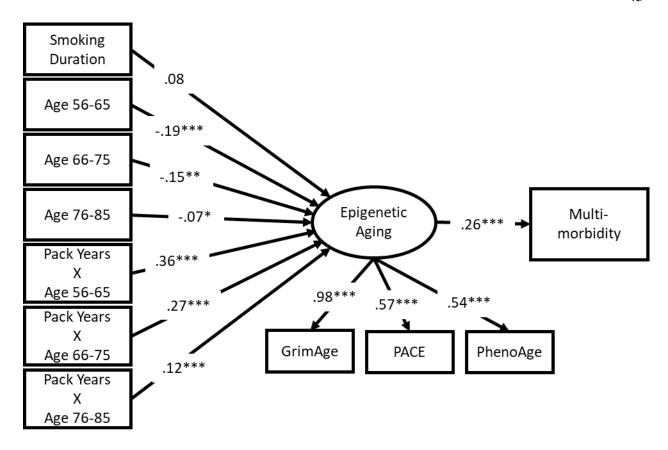


Figure S8. Multi-morbidity results using smoking duration

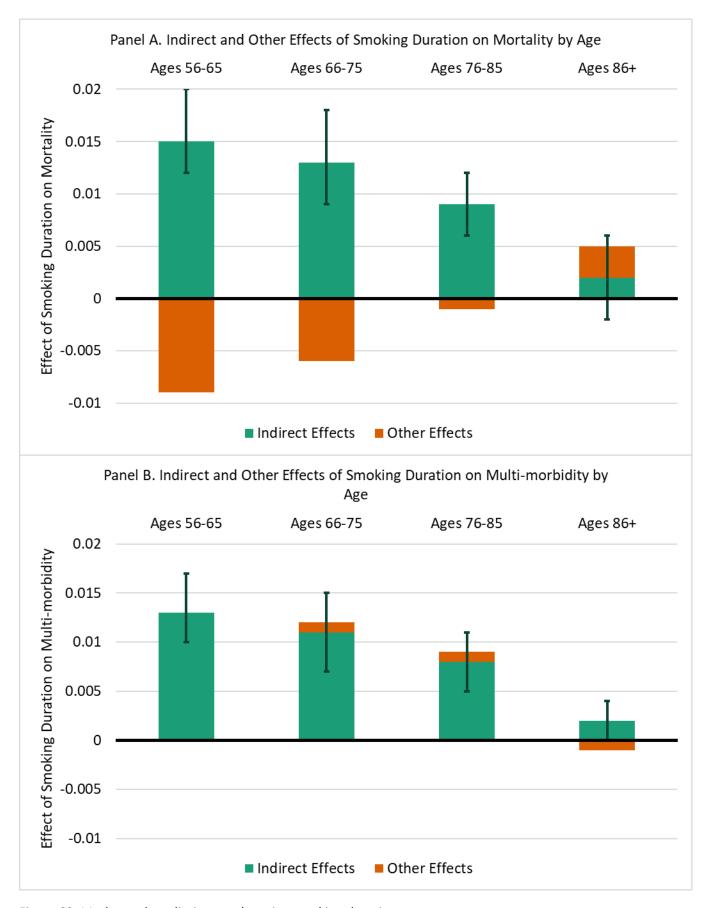


Figure S9. Moderated mediation results using smoking duration

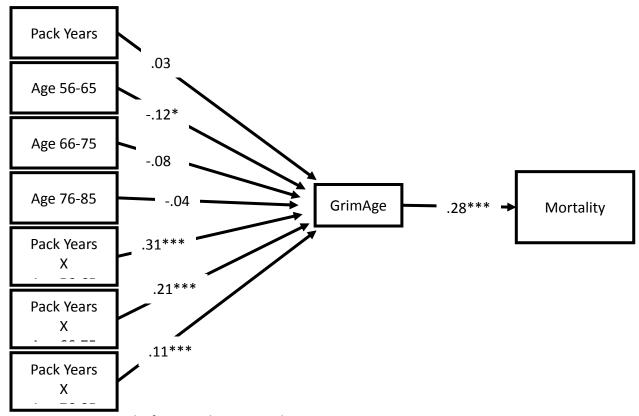


Figure S10. SEM results for Mortality using only GrimAge

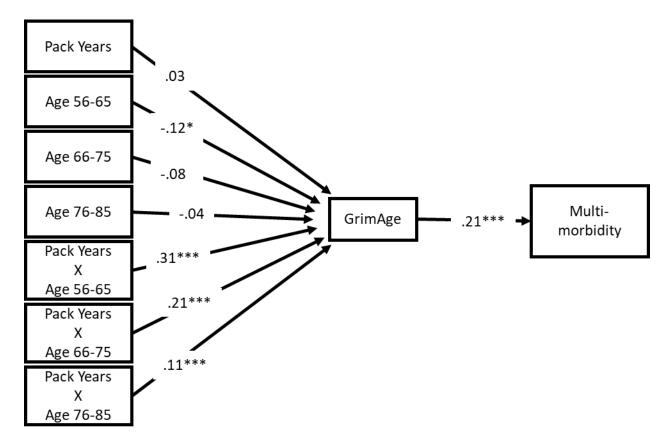
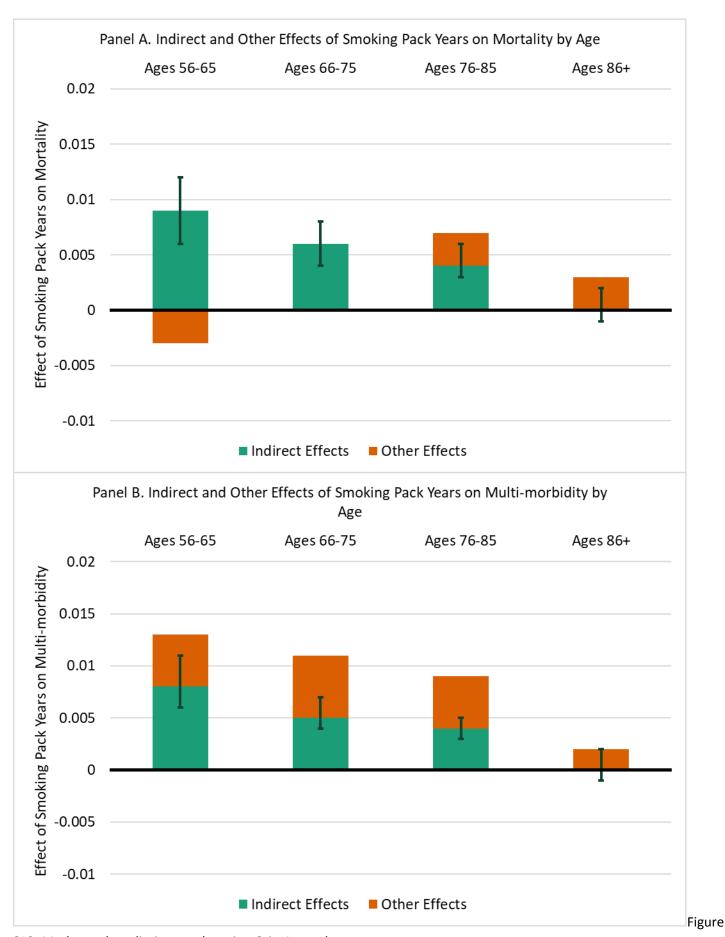


Figure S11. Multi-morbidity results using GrimAge only



S12. Moderated mediation results using GrimAge only

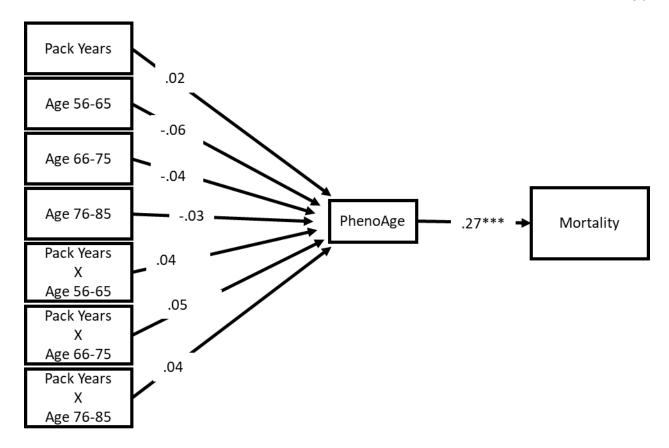


Figure S13. SEM results for Mortality using PhenoAge only

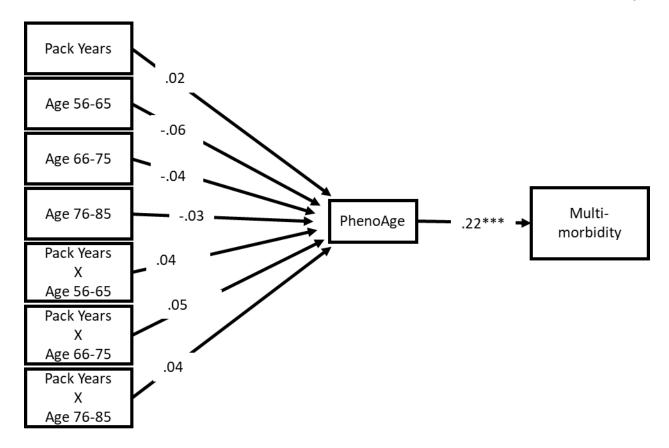


Figure S14. Multi-morbidity results using PhenoAge only

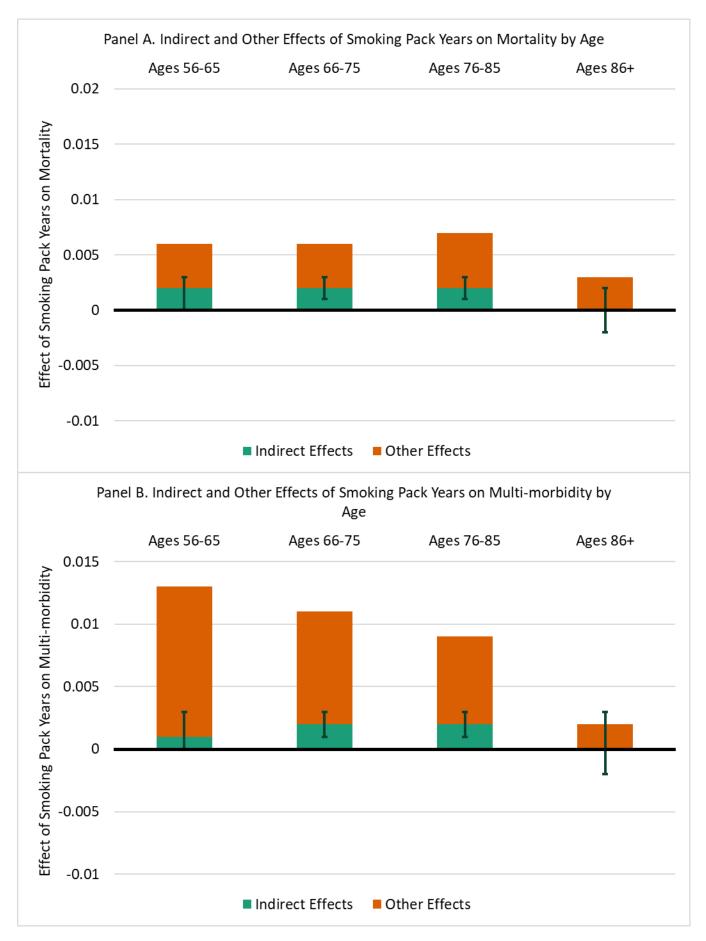


Figure S15. Moderated mediation results using PhenoAge only

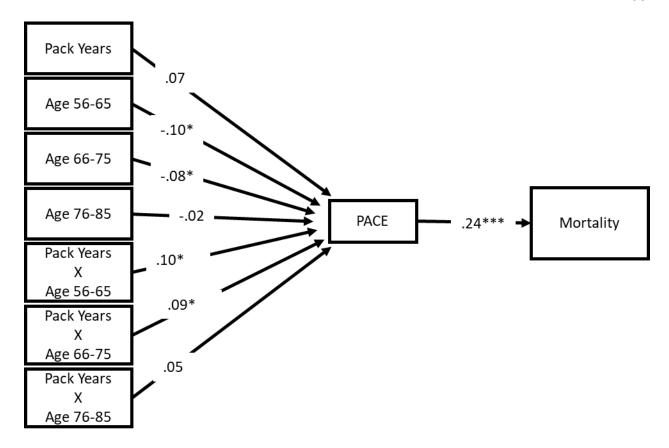


Figure S16. SEM results for Mortality using DunedinPACE only

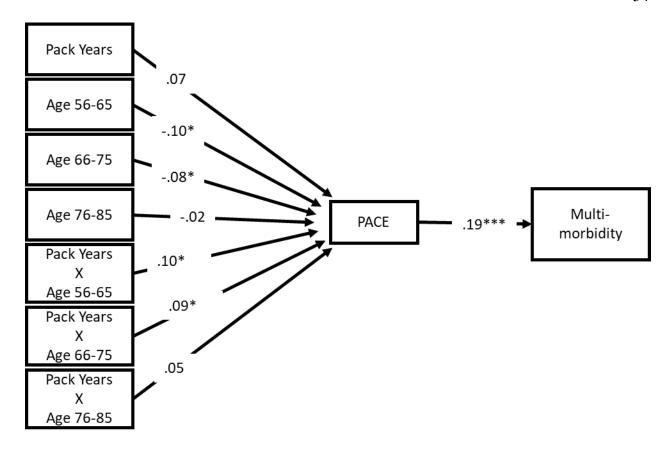


Figure S17. Multi-morbidity results using DunedinPACE only

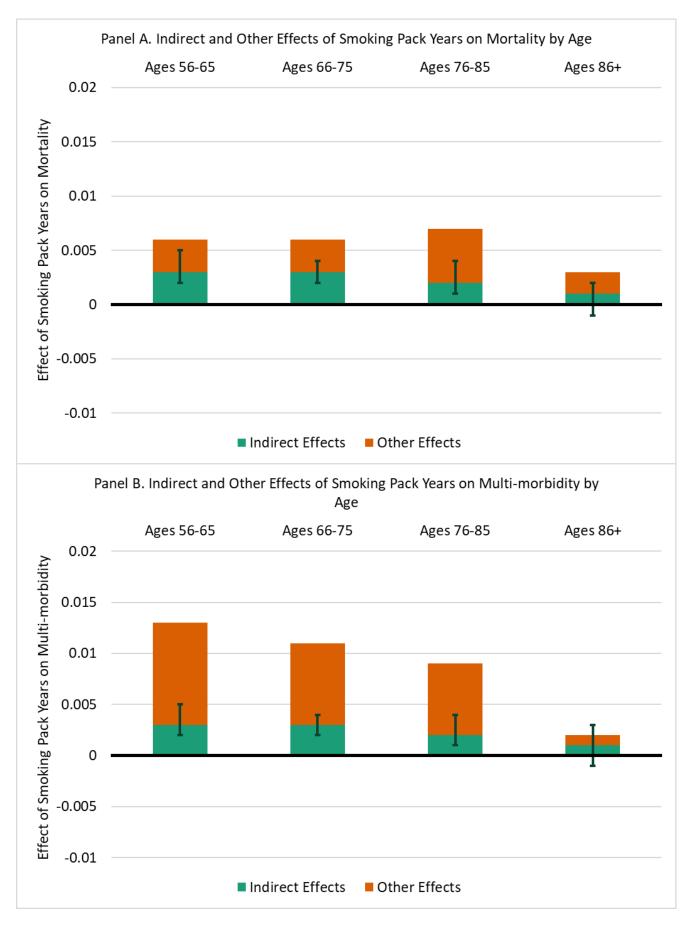


Figure S18. Moderated mediation results using DunedinPACE only

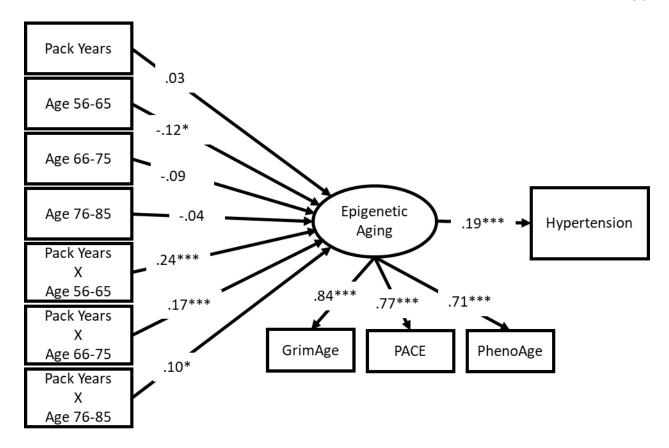


Figure S19. Hypertension results

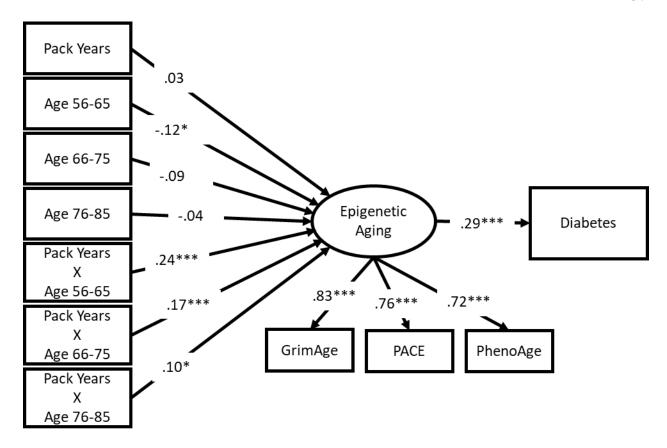


Figure S20. Diabetes results

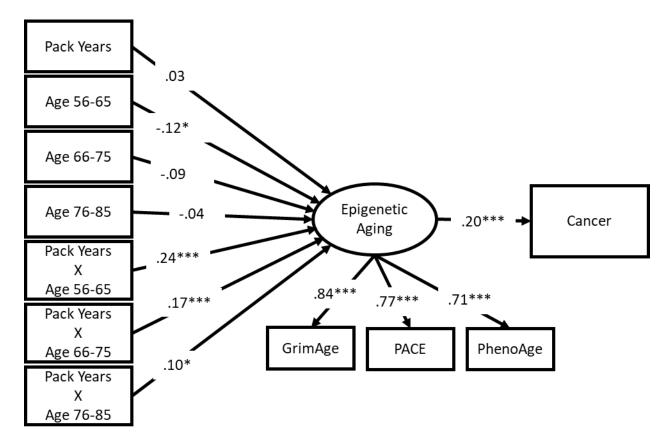


Figure S21. Cancer results

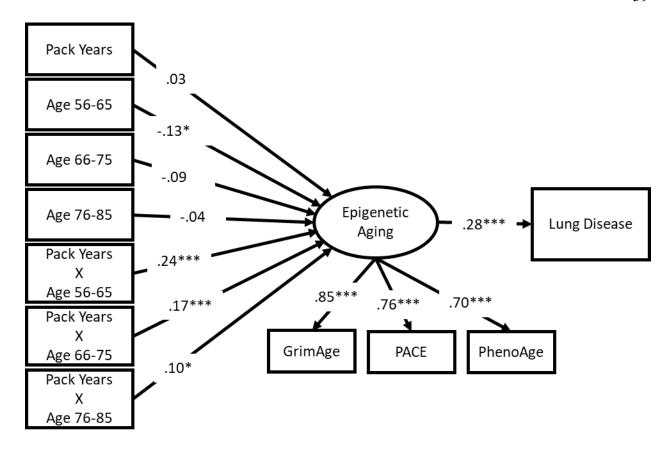


Figure S22. Lung disease results

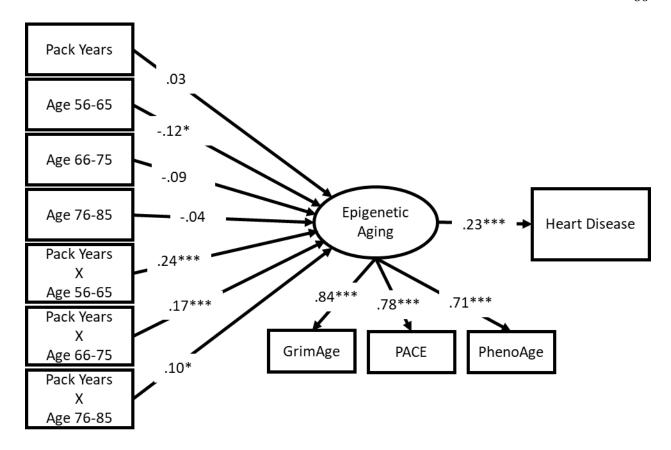


Figure S23. Heart disease results

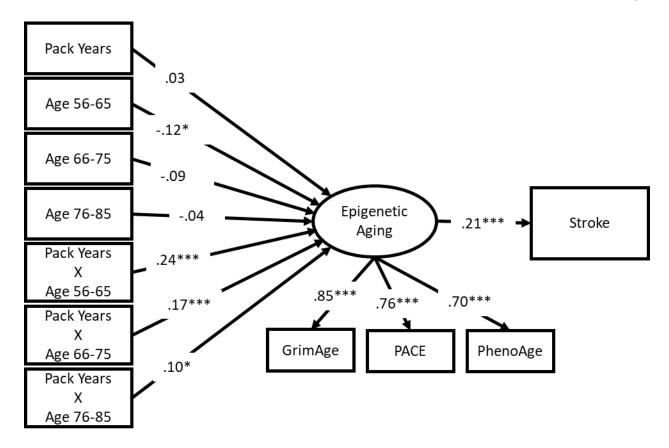


Figure S24. Stroke results

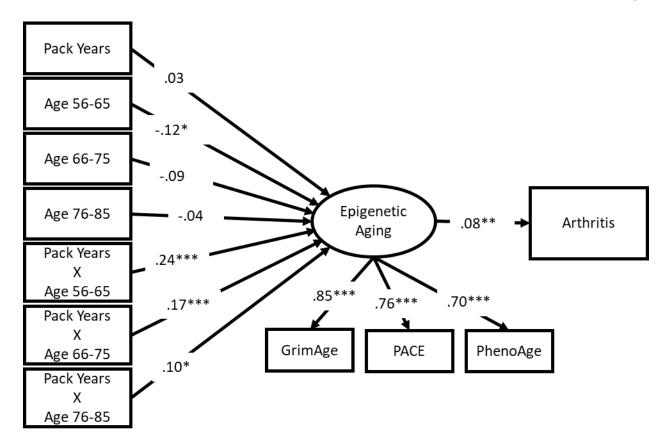
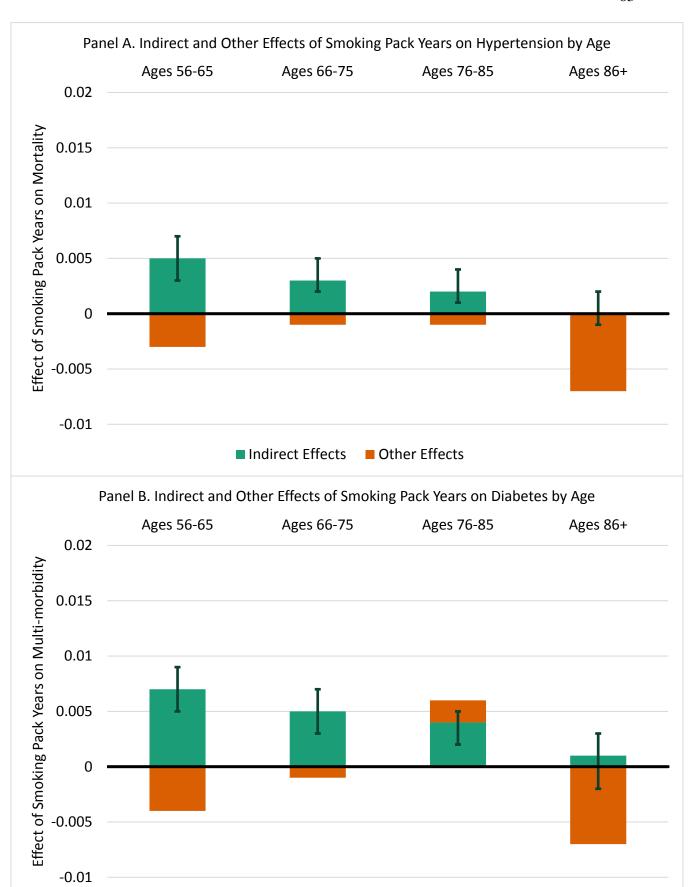
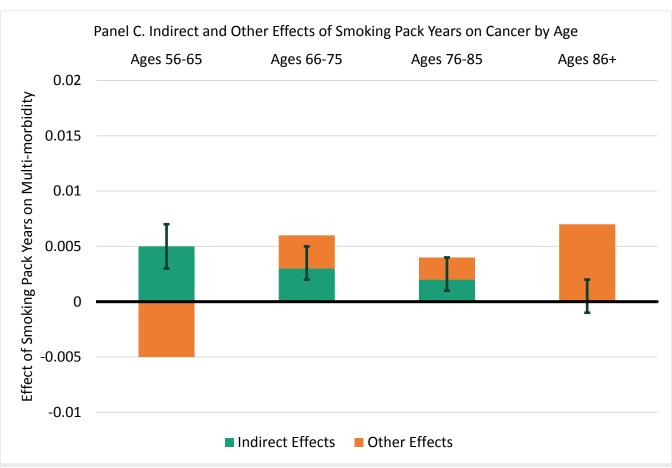
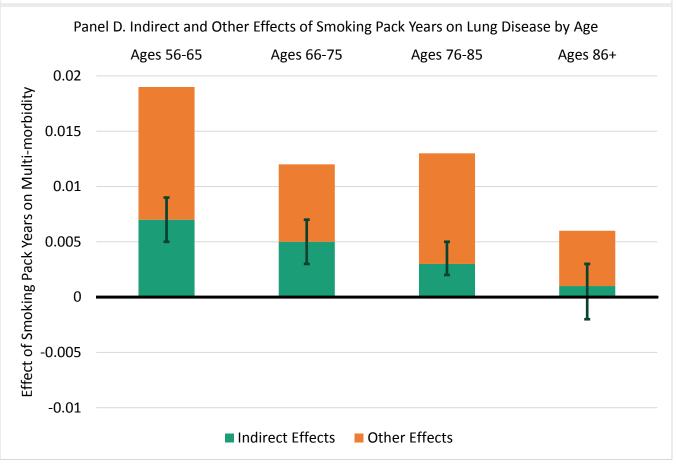


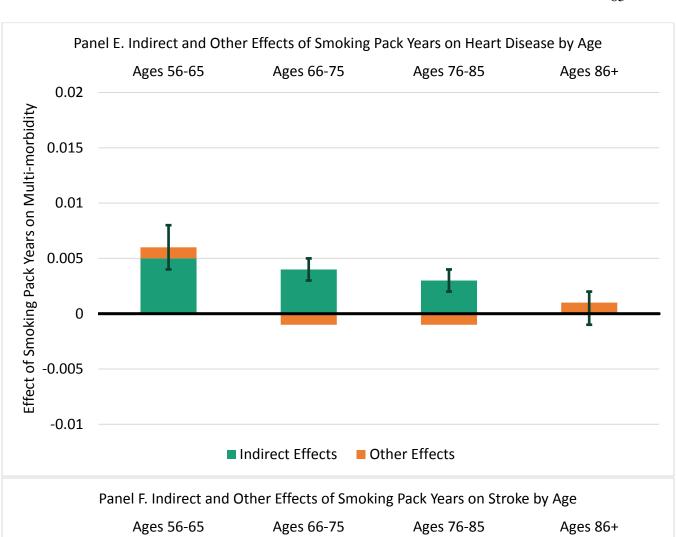
Figure S25. Arthritis results

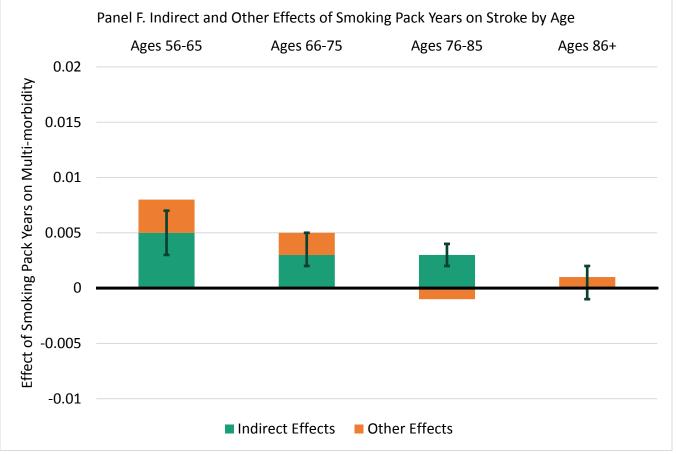


■ Indirect Effects ■ Other Effects









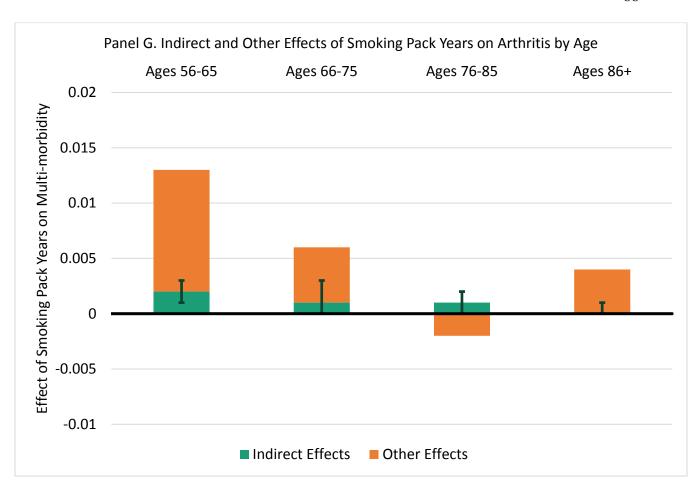


Figure S26. Moderated mediation results for individual diseases

Table S1. Comparing tertiles of accelerated aging across the three epigenetic aging measures.

_	Accelerated PhenoAge			Accelerated GrimAge			Accelerated DunedinPACE		
	1st Tertile	2nd Tertile	3rd Tertile	1st Tertile	2nd Tertile	3rd Tertile	1st Tertile	2nd Tertile	3rd Tertile
Mortality (Death = 1)	0.064	0.079	0.158 ***	0.047	0.093 **	0.157 ***	0.060	0.086	0.159 ***
Multi-morbidity (Number of Morbidities)	1.860	2.186 ***	2.775 ***	1.853	2.304 ***	2.613 ***	1.785	2.278 ***	2.806 ***
Lifetime Packyears	9.896	11.458 *	15.105 ***	4.739	9.186 ***	22.517 ***	7.985	12.135 ***	16.966 ***
Gender (Female = 1)	0.606	0.536 *	0.463 ***	0.781	0.506 ***	0.319 ***	0.622	0.494 ***	0.485 ***
Education: 0-11 Years	0.115	0.138	0.166 **	0.108	0.142 *	0.166 ***	0.078	0.127 ***	0.227 ***
Education: 12 Years	0.263	0.303	0.340 ***	0.251	0.296	0.355 ***	0.249	0.316 **	0.345 ***
Education: 13-15 Years	0.253	0.267	0.253	0.272	0.242	0.259	0.258	0.268	0.245
Education: 16+ Years	0.369	0.292 **	0.242 ***	0.368	0.320 *	0.220 ***	0.414	0.289 ***	0.182 ***
Race/Ethnicity: White, not Hispanic	0.825	0.779 **	0.726 ***	0.770	0.772	0.796	0.869	0.779 ***	0.666 ***
Race/Ethnicity: Black, not Hispanic	0.057	0.095 ***	0.159 ***	0.089	0.101	0.114 *	0.048	0.095 ***	0.175 ***
Race/Ethnicity: Hispanic	0.082	0.091	0.085	0.100	0.092	0.066 *	0.056	0.087 **	0.123 ***
Race/Ethnicity: Other, not Hispanic	0.035	0.035	0.030	0.041	0.035	0.024	0.027	0.039	0.036
BMI: Under Weight	0.014	0.020	0.015	0.016	0.009	0.024	0.021	0.008 *	0.020
BMI: Normal Weight	0.306	0.232 ***	0.217 ***	0.289	0.219 **	0.253	0.348	0.225 ***	0.170 ***
BMI: Overweight	0.423	0.365 *	0.316 ***	0.400	0.344 *	0.367	0.388	0.390	0.326 *
BMI: Obese 1	0.198	0.249 *	0.227	0.211	0.261 *	0.201	0.181	0.253 **	0.245 **
BMI: Obese 2	0.058	0.134 ***	0.225 ***	0.084	0.167 ***	0.155 ***	0.061	0.124 ***	0.239 ***

Note: significance tests from bivariate regression of variable on age category with tertile 1 as reference group; \*\*\* p < .001, \*\* p < .01, \* p < .05.