

Supplementary Table 32. Average mediated proportions for ten components of GrimAge2 on the relationship between race and ethnicity and all-cause mortality, NHANES 1999-2002 (n=2,402). Bold indicates statistical significance (p-value<0.05), and bold with two asterisks indicates significance passed Bonferroni adjustment (p-value<0.0021).

	Model 1. Black (N= 516) vs. White (N= 943)		Model 2. Hispanic (N=860) vs. White (N= 943)		Model 3. Other races (N=83) vs. White (N= 943)	
	Average mediated proportion	(95% CI)	Average mediated proportion	(95% CI)	Average mediated proportion	(95% CI)
GrimAge2 components						
GDF15Mort	4.1%	(0.1% 11.7%)	16.3%	(4.2% 56.1%)	8.1%	(-126.9% 131.2%)
B2MMort	25.3%**	(11.5% 66.4%)	22.2%**	(9.0% 70.8%)	32.2%	(-479.1% 568.0%)
CystatinCMort	12.1%**	(5.1% 27.8%)	27.3%	(10.7% 84.0%)	54.4%	(-625.8% 1107.9%)
TIMP1Mort	8.6%	(-1.1% 27.2%)	13.2%	(0.9% 43.6%)	6.9%	(-124.1% 186.7%)
ADMMort	-21.4%**	(-52.2% - 9.1%)	-13.8%	(-64.6% 0.3%)	-2.8%	(-72.8% 57.9%)
PAIIMort	-1.4%	(-8.9% 3.4%)	0.4%	(-10.3% 10.1%)	-1.6%	(-64.9% 55.8%)
LeptinMort	5.6%	(0.6% 15.9%)	2.1%	(-3.0% 12.0%)	1.0%	(-52.9% 44.4%)
PACKYRSMort	38.7%**	(22.0% 75.4%)	0.4%	(-58.0% 25.5%)	-5.9%	(-182.8% 247.6%)
CRPMort	20.5%**	(9.1% 45.9%)	30.8%**	(13.6% 80.6%)	11.7%	(-126.0% 137.7%)
logA1CMort	27.7%**	(14.5% 52.2%)	29.5%**	(12.4% 121.6%)	21.9%	(-184.9% 234.8%)

Supplementary Table 33. Average mediated proportions for ten components of GrimAge2 on the relationship between education attainment and all-cause mortality, NHANES 1999-2002 (n=2,402). Bold indicates statistical significance (p-value<0.05), and bold with two asterisks indicates significance passed Bonferroni adjustment (p-value<0.0021).

	Model 1. Less than high school (N=1,096) vs. College degree or higher (N= 370)		Model 2. High school graduate/GED (N=496) vs. College degree or higher (N= 370)		Model 3. Some college or associates degree (N=440) vs. College degree or higher (N= 370)	
	Average mediated proportion	(95% CI)	Average mediated proportion	(95% CI)	Average mediated proportion	(95% CI)
GrimAge2 components						
GDF15Mort	7.0%**	(2.2% 13.5%)	3.1%	(-1.2% 11.8%)	10.8%**	(4.3% 21.4%)
B2MMort	4.0%	(1.1% 8.0%)	5.4%	(0.6% 13.6%)	2.6%	(-4.3% 10.6%)
CystatinCMort	4.1%	(0.7% 9.8%)	3.3%	(-0.9% 12.7%)	4.2%	(-2.6% 12.8%)
TIMP1Mort	8.7%**	(3.4% 16.5%)	3.4%	(-0.2% 13.4%)	9.5%	(2.4% 19.7%)
ADMMort	1.4%	(-2.8% 6.2%)	-0.9%	(-9.1% 4.9%)	1.8%	(-4.8% 10.0%)
PAIIMort	3.0%	(0.0% 8.5%)	2.1%	(-0.6% 8.4%)	8.6%	(1.0% 26.3%)
LeptinMort	1.3%	(-2.8% 7.8%)	2.5%	(-2.7% 11.2%)	0.0%	(-3.9% 5.3%)
PACKYRSMort	17.6%**	(8.8% 30.2%)	17.3%**	(6.3% 37.1%)	27.0%**	(12.5% 55.8%)
CRPMort	14.4%**	(6.2% 27.5%)	8.2%**	(2.3% 23.6%)	9.4%**	(2.3% 22.6%)
logA1CMort	5.7%	(-1.0% 14.9%)	7.0%	(0.7% 21.3%)	7.4%	(0.2% 24.2%)

Supplementary Table 34. Average mediated proportions for ten components of GrimAge2 on the relationship between household income and all-cause mortality, NHANES 1999-2002 (n=2,402). Bold indicates statistical significance (p-value<0.05), and bold with two asterisks indicates significance passed Bonferroni adjustment (p-value<0.0021).

	Model 1. PIR<1 (N=373) vs. PIR 5+ (N= 399)		Model 2. PIR 1-2 (N=707) vs. PIR 5+ (N= 399)		Model 3. PIR 2-5 (N=923) vs. PIR 5+ (N= 399)	
	Average mediated proportion	(95% CI)	Average mediated proportion	(95% CI)	Average mediated proportion	(95% CI)
GrimAge2 components						
GDF15Mort	4.5%	(-1.7% 13.2%)	5.9%**	(2.2% 13.2%)	4.5%	(0.5% 18.4%)
B2MMort	9.0%**	(2.8% 18.9%)	8.2%**	(3.5% 15.0%)	10.0%**	(3.8% 24.9%)
CystatinCMort	6.9%	(1.3% 15.9%)	9.3%**	(4.0% 19.8%)	5.7%	(1.1% 17.7%)
TIMP1Mort	9.4%	(2.4% 19.9%)	10.2%**	(4.2% 20.2%)	6.5%	(0.0% 21.0%)
ADMMort	2.1%	(-3.4% 8.6%)	4.4%	(0.6% 11.3%)	3.5%	(-6.5% 14.5%)
PAIIMort	1.9%	(-3.2% 8.8%)	1.9%	(-0.4% 6.1%)	3.8%	(-0.5% 14.5%)
LeptinMort	0.6%	(-1.5% 4.7%)	1.5%	(-1.3% 7.0%)	-0.4%	(-4.9% 2.7%)
PACKYRSMort	24.0%**	(12.9% 40.2%)	17.4%**	(8.7% 32.6%)	14.6%	(3.8% 38.5%)
CRPMort	12.9%	(1.8% 27.8%)	16.9%**	(7.3% 32.4%)	10.2%	(1.3% 29.4%)
logA1CMort	8.7%	(0.7% 19.0%)	5.6%	(1.1% 13.6%)	8.4%	(1.9% 23.7%)