

NHANES BHAPC Analysis Summary

Bayesian Hierarchical Age–Period–Cohort decomposition of Self–Rated Health (N = 75,367)

Variance Decomposition

Component	Var	%
Cohort	0.003	0.3%
Period	0.020	1.8%
Residual	1.079	97.9%

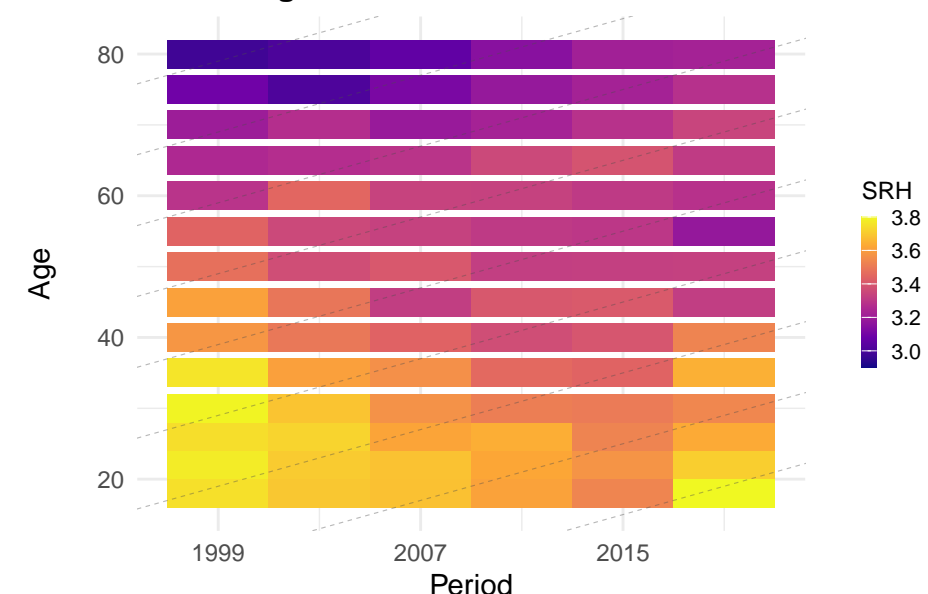
BHAPC Model Effects

Effect	Est.	10%	90%	
Age (linear)	−0.03	−0.03	−0.02	***
Age (quadratic, scaled)	0.30	0.25	0.34	***
Period				
1999	0.06	0.00	0.12	
2003	0.01	−0.06	0.07	
2007	−0.08	−0.15	−0.02	***
2011	−0.05	−0.12	0.01	
2015	−0.08	−0.15	−0.02	***
2019	0.14	0.07	0.20	***
Cohort				
1916	0.00	−0.06	0.06	
1920	−0.12	−0.18	−0.07	***
1924	0.03	−0.01	0.07	
1928	−0.01	−0.04	0.03	
1932	0.05	0.02	0.08	***
1936	−0.01	−0.04	0.02	
1940	0.00	−0.03	0.04	
1944	0.02	0.00	0.05	
1948	0.00	−0.03	0.02	
1952	−0.01	−0.04	0.01	
1956	0.01	−0.02	0.04	
1960	0.01	−0.02	0.03	
1964	0.00	−0.02	0.03	
1968	0.07	0.04	0.09	***
1972	0.08	0.05	0.11	***
1976	0.05	0.02	0.07	***
1980	−0.02	−0.05	0.01	
1984	0.03	0.00	0.05	
1988	−0.01	−0.04	0.02	
1992	−0.05	−0.08	−0.02	***
1996	−0.05	−0.09	−0.02	***
2000	−0.04	−0.09	0.01	

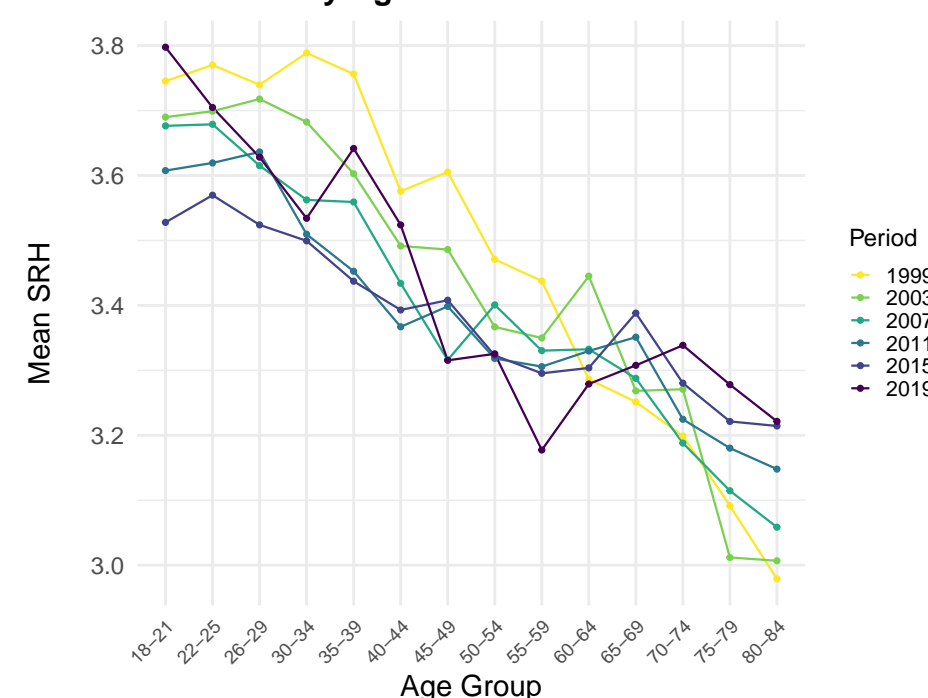
AgexPeriod Interaction

Period	Slope	vs 1999	
1999	−0.0151	+0.0000	ref
2003	−0.0131	+0.0020	***
2007	−0.0112	+0.0040	***
2011	−0.0106	+0.0046	***
2015	−0.0091	+0.0061	***
2019	−0.0076	+0.0075	***

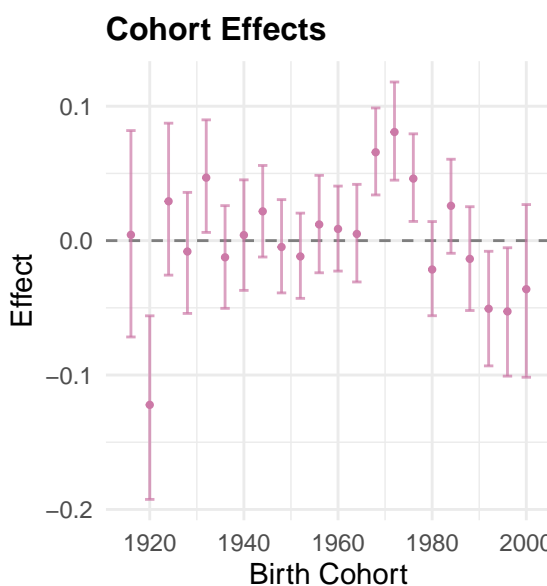
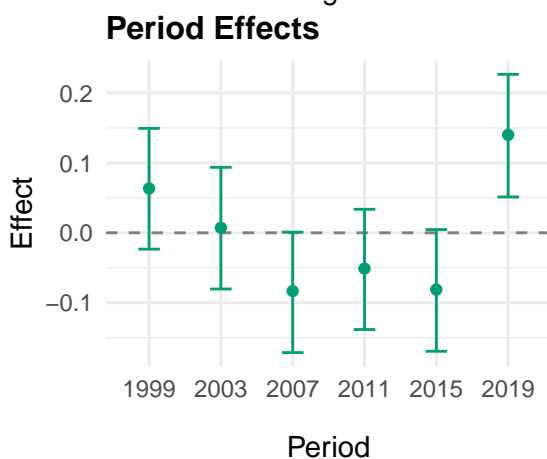
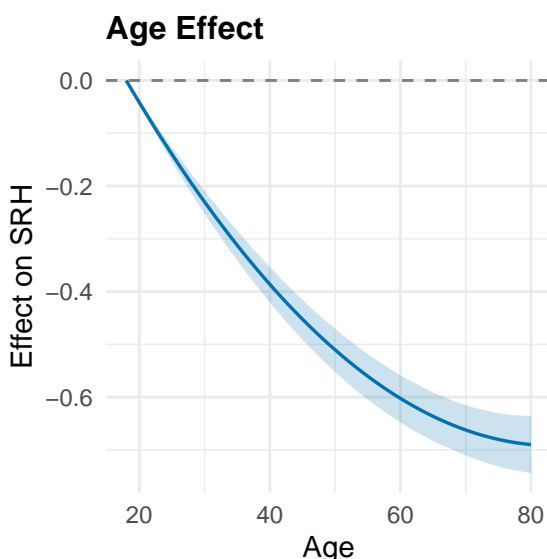
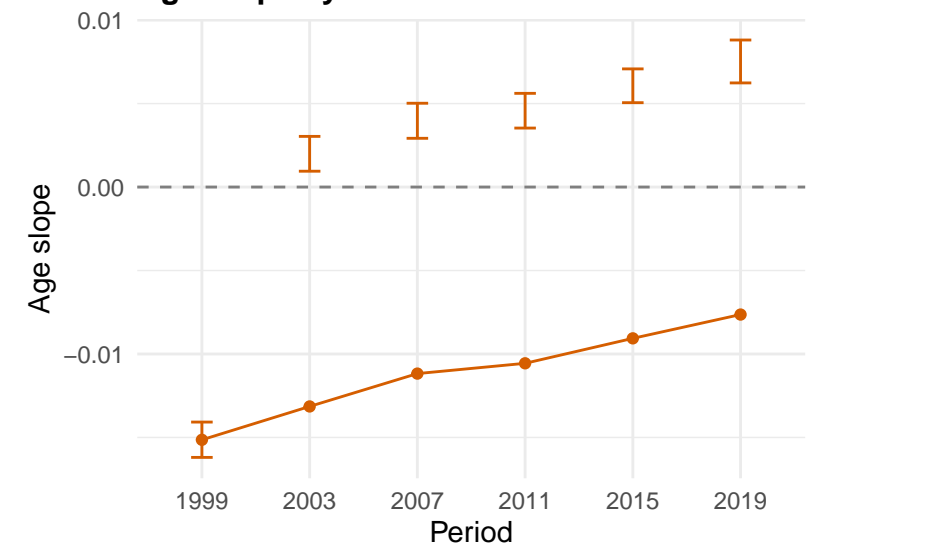
Lexis Diagram



Mean SRH by Age & Period



Age Slope by Period



Higher SRH = better health (1–5 scale). Error bars/ribbons show 90% CIs. * = significant (CI excludes 0)