Appendix Table A1. OLS regression estimates of famine effects on later-life cognitive decline during 2011-2013 after multiple imputations for missing data.

Cognitive change during 2011-2013	TICS		Episodic memory		Draw pentagons		General cognition	
	Coef.	*p-value*	Coef.	*p-value*	Coef.	*p-value*	Coef.	*p-value*
Model 1 (reference cohort: 1963)[a]								
β_{1958} (CSSI × 1958 cohort)	0.005	0.742	0.005	0.734	0.002	0.561	0.012	0.540
	(-0.023, 0.033)		(-0.027, 0.037)		(-0.004, 0.008)		(-0.028, 0.052)	
β_{1959} (CSSI × 1959 cohort)	-0.027	0.101	-0.022	0.128	-0.005	0.181	-0.042	0.033
	(-0.059, 0.005)		(-0.051, 0.007)		(-0.013, 0.002)		(-0.080, -0.003)	
β_{1960} (CSSI × 1960 cohort)	0.000	0.979	0.010	0.421	-0.002	0.548	0.003	0.875
	(-0.025, 0.024)		(-0.015, 0.035)		(-0.007, 0.008)		(-0.035, 0.041)	
β_{1961} (CSSI × 1961 cohort)	0.013	0.361	-0.007	0.559	0.000	0.962	0.005	0.819
	(-0.015, 0.041)		(-0.032, 0.018)		(-0.007, 0.008)		(-0.040, 0.050)	
β_{1962} (CSSI × 1962 cohort)	-0.013	0.244	0.007	0.560	-0.001	0.645	-0.008	0.616
	(-0.035, 0.009)		(-0.020, 0.035)		(-0.007, 0.005)		(-0.042, 0.025)	
Model 2 (reference cohort: 1963)[b]								
β_{1958} (CSSI × 1958 cohort)	0.008	0.619	0.004	0.737	0.002	0.499	0.016	0.441
	(-0.024, 0.039)		(-0.024, 0.033)		(-0.005, 0.009)		(-0.025, 0.056)	
β_{1959} (CSSI × 1959 cohort)	-0.024	0.176	-0.022	0.062	-0.005	0.255	-0.042	0.048
	(-0.059, 0.011)		(-0.046, 0.001)		(-0.013, 0.004)		(-0.084, 0.000)	
β_{1960} (CSSI × 1960 cohort)	0.002	0.872	0.011	0.395	-0.001	0.650	0.005	0.802
	(-0.024, 0.028)		(-0.015, 0.037)		(-0.007, 0.005)		(-0.038, 0.048)	
β_{1961} (CSSI × 1961 cohort)	0.012	0.392	-0.010	0.474	0.000	0.953	0.005	0.822
	(-0.016, 0.040)		(-0.042, 0.021)		(-0.008, 0.007)		(-0.036, 0.045)	
β_{1962} (CSSI × 1962 cohort)	-0.013	0.277	0.002	0.828	-0.001	0.647	-0.008	0.641
	(-0.035, 0.010)		(-0.020, 0.024)		(-0.007, 0.005)		(-0.041, 0.026)	

Notes:

Coef. denotes coefficient.

CSSI denotes mean-centered cohort size shrinkage index at the prefecture level.

Numbers in the parentheses are 95% confidence intervals.

[a]Adjusted for cohort, CSSI, gender, marital status, provincial fixed effects.

[b]Model 1 + additionally adjusted for education.

Appendix Table A2. OLS regression estimates of famine effects on later-life cognition in 2011: Urban sample.

Cognition in 2011	TICS		Episodic memory		Draw pentagons		General cognition	
	Coef.	*p-value*	Coef.	*p-value*	Coef.	*p-value*	Coef.	*p-value*
Model 1 (reference cohort: 1963)[a]								
β_{1958}(CSSI × 1958 cohort)	-0.029	0.241	0.004	0.846	-0.002	0.536	-0.028	0.343
	(-0.078, 0.020)		(-0.035, 0.043)		(-0.008, 0.004)		(-0.085, 0.030)	
β_{1959}(CSSI × 1959 cohort)	-0.010	0.628	-0.031	0.217	-0.005	0.087	-0.035	0.296
	(-0.049, 0.030)		(-0.080, 0.018)		(-0.010, 0.001)		(-0.103, 0.032)	
β_{1960}(CSSI × 1960 cohort)	-0.020	0.432	0.028	0.145	0.000	0.930	0.013	0.676
	(-0.071, 0.031)		(-0.010, 0.067)		(-0.007, 0.007)		(-0.050, 0.077)	
β_{1961}(CSSI × 1961 cohort)	-0.020	0.450	-0.002	0.916	0.000	0.960	-0.013	0.659
	(-0.072, 0.032)		(-0.046, 0.041)		(-0.005, 0.005)		(-0.070, 0.045)	
β_{1962}(CSSI × 1962 cohort)	-0.058	0.045	-0.023	0.182	0.000	0.930	-0.057	0.047
	(-0.114, -0.001)		(-0.056, 0.011)		(-0.006, 0.007)		(-0.113, -0.001)	
Model 2 (reference cohort: 1963)[b]								
β_{1958}(CSSI × 1958 cohort)	-0.011	0.590	0.007	0.703	0.001	0.761	-0.006	0.800
	(-0.054, 0.031)		(-0.030, 0.045)		(-0.005, 0.006)		(-0.057, 0.045)	
β_{1959}(CSSI × 1959 cohort)	-0.003	0.890	-0.029	0.240	-0.004	0.120	-0.030	0.368
	(-0.040, 0.034)		(-0.077, 0.020)		(-0.009, 0.001)		(-0.095, 0.036)	
β_{1960}(CSSI × 1960 cohort)	-0.027	0.266	0.030	0.127	-0.002	0.576	0.001	0.966
	(-0.074, 0.021)		(-0.009, 0.069)		(-0.009, 0.005)		(-0.060, 0.063)	
β_{1961}(CSSI × 1961 cohort)	-0.020	0.457	-0.001	0.951	-0.001	0.723	-0.017	0.570
	(-0.073, 0.033)		(-0.044, 0.041)		(-0.006, 0.004)		(-0.075, 0.042)	
β_{1962}(CSSI × 1962 cohort)	-0.055	0.036	-0.021	0.221	0.000	0.953	-0.054	0.043
	(-0.106, -0.004)		(-0.054, 0.013)		(-0.006, 0.006)		(-0.107, -0.002)	

Notes:
Coef. denotes coefficient.
CSSI denotes mean-centered cohort size shrinkage index at the prefecture level.
Numbers in the parentheses are 95% confidence intervals.
[a]Adjusted for cohort, CSSI, gender, marital status, provincial fixed effects.
[b]Model 1 + additionally adjusted for education.

Appendix Table A3. OLS regression estimates of famine effects on later-life cognitive decline during 2011-2013: Urban sample.

Cognitive change during 2011-2013	TICS		Episodic memory		Draw pentagons		General cognition	
	Coef.	*p-value*	Coef.	*p-value*	Coef.	*p-value*	Coef.	*p-value*
Model 1 (reference cohort: 1963)[a]								
$\beta_{1958}(CSSI \times 1958\ cohort)$	0.022	0.504	-0.032	0.237	0.003	0.533	-0.018	0.642
	(-0.044, 0.089)		(-0.087, 0.022)		(-0.006, 0.012)		(-0.095, 0.059)	
$\beta_{1959}(CSSI \times 1959\ cohort)$	0.015	0.596	0.012	0.642	-0.005	0.432	0.012	0.716
	(-0.042, 0.072)		(-0.038, 0.062)		(-0.016, 0.007)		(-0.053, 0.076)	
$\beta_{1960}(CSSI \times 1960\ cohort)$	0.035	0.343	-0.096	0.000	0.003	0.527	-0.057	0.288
	(-0.038, 0.108)		(-0.144, 0.048)		(-0.007, 0.014)		(-0.162, 0.049)	
$\beta_{1961}(CSSI \times 1961\ cohort)$	0.004	0.926	-0.050	0.070	0.004	0.731	-0.051	0.269
	(-0.082, 0.090)		(-0.104, 0.004)		(-0.020, 0.028)		(-0.143, 0.041)	
$\beta_{1962}(CSSI \times 1962\ cohort)$	0.018	0.614	-0.033	0.153	-0.007	0.223	-0.028	0.582
	(-0.054, 0.090)		(-0.078, 0.012)		(-0.018, 0.004)		(-0.131, 0.074)	
Model 2 (reference cohort: 1963)[b]								
$\beta_{1958}(CSSI \times 1958\ cohort)$	0.023	0.473	-0.019	0.438	0.004	0.421	-0.002	0.952
	(-0.041, 0.087)		(-0.069, 0.030)		(-0.005, 0.013)		(-0.074, 0.070)	
$\beta_{1959}(CSSI \times 1959\ cohort)$	0.012	0.663	0.013	0.633	-0.004	0.555	0.013	0.702
	(-0.044, 0.068)		(-0.041, 0.066)		(-0.016, 0.009)		(-0.053, 0.078)	
$\beta_{1960}(CSSI \times 1960\ cohort)$	0.028	0.423	-0.098	0.000	0.005	0.440	-0.062	0.255
	(-0.042, 0.099)		(-0.148, -0.049)		(-0.007, 0.017)		(-0.169, 0.046)	
$\beta_{1961}(CSSI \times 1961\ cohort)$	0.006	0.898	-0.058	0.044	0.004	0.763	-0.060	0.203
	(-0.083, 0.094)		(-0.115, -0.002)		(-0.020, 0.027)		(-0.152, 0.033)	
$\beta_{1962}(CSSI \times 1962\ cohort)$	0.015	0.677	-0.036	0.103	-0.006	0.283	-0.033	0.532
	(-0.056, 0.085)		(-0.080, 0.008)		(-0.018, 0.005)		(-0.136, 0.071)	

Notes:

Coef. denotes coefficient.

CSSI denotes mean-centered cohort size shrinkage index at the prefecture level.

Numbers in the parentheses are 95% confidence intervals.

[a]Adjusted for cohort, CSSI, gender, marital status, provincial fixed effects.

[b]Model 1 + additionally adjusted for education.