

General Psychiatry

Temporal trends and cohort variations of gender-specific major depressive disorders incidence in China: Analysis based on the age-period-cohort-interaction model

Supplementary Table 2 Estimated inter-cohort deviation and intra-cohort slope on major depressive disorder incidence by gender.

Cohort	Inter-cohort deviation									Intra-cohort slope					
	Total			Male			Female			Total		Male		Female	
	β	IRR	P value	β	IRR	P value	β	IRR	P value	β	P value	β	P value	β	P value
1900	-0.10	0.91	<0.001	-0.11	0.90	<0.001	-0.06	0.94	<0.001	NA	NA	NA	NA	NA	NA
1905	-0.11	0.89	<0.001	-0.12	0.89	<0.001	-0.11	0.90	<0.001	-0.01	0.035	0.01	0.001	-0.03	0.001
1910	-0.10	0.90	<0.001	-0.10	0.90	<0.001	-0.10	0.90	<0.001	0.04	<0.001	0.07	<0.001	0.03	<0.001
1915	-0.07	0.93	<0.001	-0.07	0.93	<0.001	-0.08	0.92	<0.001	0.12	<0.001	0.14	<0.001	0.10	<0.001
1920	-0.03	0.97	<0.001	-0.03	0.97	<0.001	-0.04	0.96	<0.001	0.20	<0.001	0.21	<0.001	0.19	<0.001
1925	-0.05	0.95	<0.001	-0.05	0.96	<0.001	-0.05	0.95	<0.001	0.09	<0.001	0.11	<0.001	0.08	<0.001
1930	0.00	1.00	<0.001	0.00	1.00	0.162	0.00	1.00	<0.001	0.26	<0.001	0.26	<0.001	0.26	<0.001
1935	0.01	1.01	<0.001	0.01	1.01	<0.001	0.02	1.02	<0.001	0.24	<0.001	0.25	<0.001	0.24	<0.001
1940	0.02	1.02	<0.001	0.03	1.03	<0.001	0.03	1.03	<0.001	0.19	<0.001	0.20	<0.001	0.18	<0.001
1945	0.05	1.05	<0.001	0.05	1.05	<0.001	0.05	1.05	<0.001	0.12	<0.001	0.13	<0.001	0.11	<0.001
1950	0.07	1.07	<0.001	0.07	1.07	<0.001	0.07	1.07	<0.001	0.04	<0.001	0.04	<0.001	0.02	<0.001
1955	0.09	1.09	<0.001	0.09	1.09	<0.001	0.08	1.09	<0.001	-0.05	<0.001	-0.05	<0.001	-0.06	<0.001
1960	0.09	1.09	<0.001	0.09	1.09	<0.001	0.08	1.09	<0.001	-0.12	<0.001	-0.13	<0.001	-0.13	<0.001
1965	0.08	1.09	<0.001	0.09	1.09	<0.001	0.07	1.07	<0.001	-0.21	<0.001	-0.23	<0.001	-0.20	<0.001
1970	0.05	1.06	<0.001	0.07	1.07	<0.001	0.04	1.04	<0.001	-0.29	<0.001	-0.31	<0.001	-0.26	<0.001
1975	0.01	1.01	<0.001	0.02	1.02	<0.001	-0.01	0.99	<0.001	-0.31	<0.001	-0.32	<0.001	-0.28	<0.001
1980	-0.07	0.94	<0.001	-0.07	0.93	<0.001	-0.07	0.94	<0.001	-0.18	<0.001	-0.17	<0.001	-0.19	<0.001
1985	-0.10	0.9	<0.001	-0.12	0.89	<0.001	-0.09	0.91	<0.001	-0.11	<0.001	-0.10	<0.001	-0.11	<0.001
1990	-0.09	0.91	<0.001	-0.10	0.90	<0.001	-0.08	0.93	<0.001	-0.15	<0.001	-0.16	<0.001	-0.12	<0.001
1995	-0.05	0.95	<0.001	-0.05	0.95	<0.001	-0.04	0.96	<0.001	-0.23	<0.001	-0.24	<0.001	-0.20	<0.001
2000	-0.02	0.98	<0.001	-0.01	0.99	<0.001	-0.02	0.98	<0.001	-0.21	<0.001	-0.22	<0.001	-0.19	<0.001
2005	0.00	1.00	0.018	0.02	1.02	<0.001	0.00	1.00	0.331	-0.12	<0.001	-0.12	<0.001	-0.11	<0.001
2010	0.01	1.01	0.033	0.01	1.01	0.055	0.02	1.02	0.005	NA	NA	NA	NA	NA	NA

Note: IRR: Incidence Rate Ratio. The coefficients of inter-cohort deviation represent the deviation in MDD incidence compared to the expected incidence determined by age and period main effects. A positive deviation indicates a higher incidence than expected, while a negative deviation indicates a lower incidence than expected. The coefficients of intra-cohort slope represent the change in MDD incidence among different age groups within the cohort. The positive slope represents the increase in risk with the aging of the cohort, and the negative slope represents the decrease in risk with the aging of the cohort. Due to having only one observation group for the youngest cohort (1900 birth cohort) and the oldest cohort (2010 birth cohort), intra-cohort slope tests were not possible for these cohorts. Orange represents the “Republic of China” generation, yellow represents the “War” generation, green represents the “Cultural Revolution” generation, and blue represents the “Reform and Opening Up” generation.