

Supplementary material

Supplement to: Slabá, J., Šťastná, A., Kocourková, J. (2026). How do reproductive events other than live births shape the timing of a second child? *Vienna Yearbook of Population Research*, <https://doi.org/10.1553/p-f6d9-zjjz>

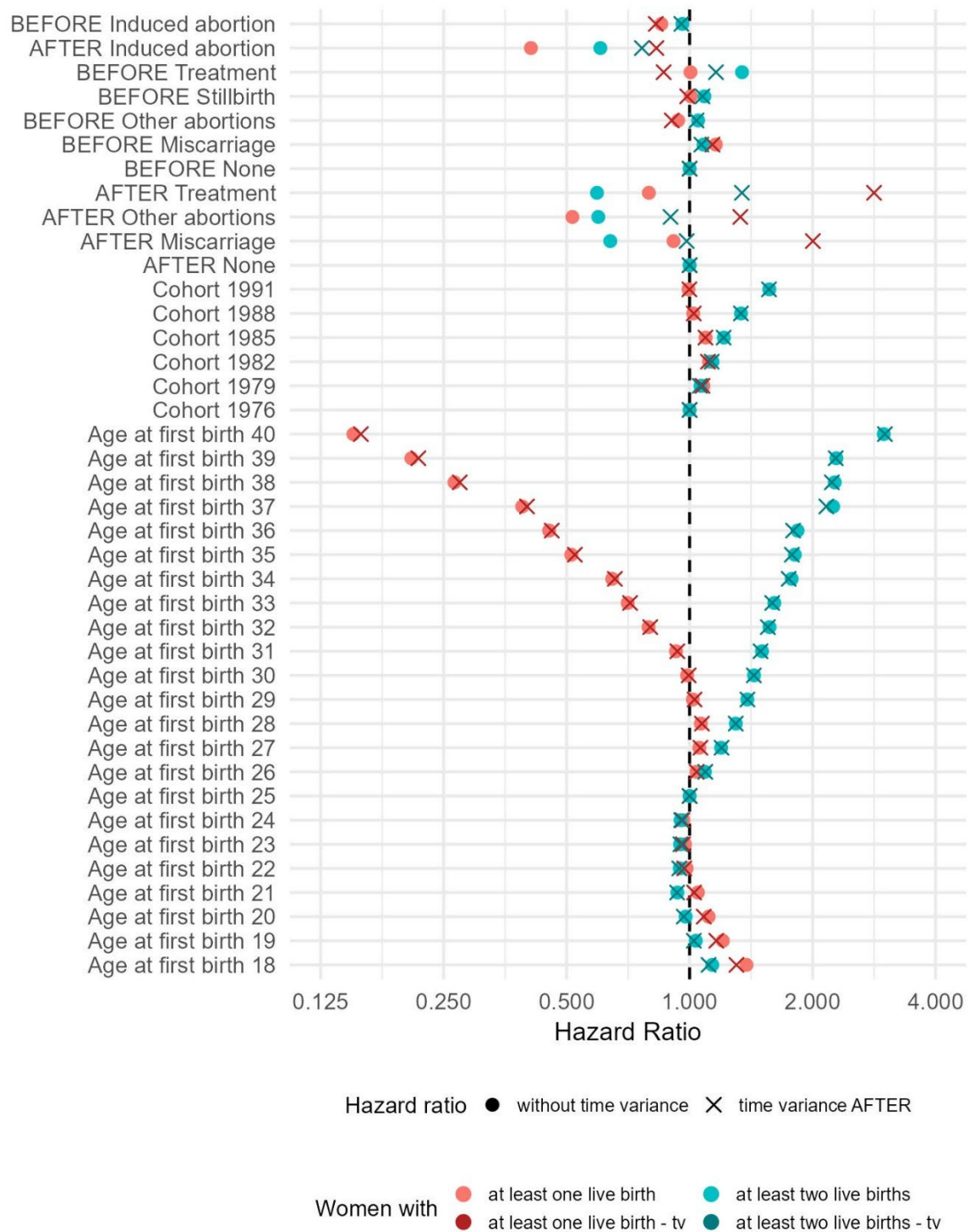
S1 Average hazard ratios of a second live birth with the time elapsed since a first live birth

Figure S.1 shows the average hazard ratios for second live births. The points represent the model without time-varying covariates, while the crosses represent the model that considered events that occurred after a first live birth (but before a second live birth) as time-varying. The blue symbols indicate those women who had at least two live births within six years (72 months) of a first live birth. The red symbols indicate those women with at least one live birth.

The impact of the age at the first live birth differed notably between the women with at least one live birth and those at least two live births, i.e., by six years (Figure S.1). Those women who went on to have a second child displayed a higher risk of having a second live birth with increasing age at the first birth, while the women with only one live birth exhibited a declining hazard with increasing age.

Table S.1 presents the model without time-varying covariates (M1 and M4) for both defined populations of women (those with at least one live birth and those with at least two live births), as well as the time-varying models (M2 and M5). M3 and M6 are also time-varying, but are estimated only for the subsample of women whose reproductive trajectories began with a first reproductive event (live birth or other) after 2016, the year in which the recording of the reason for an induced abortion commenced.

Figure S.1 Average hazard ratios for a second live birth with the time that elapsed since the first live birth (points) or since the last reproductive event (crosses)



Note: tv = the time variance of other reproductive events experienced following a first live birth. The specific HR values are shown in Table S.1 in the Supplementary material as M1, M2, M4 and M5.

Table S.1 The average hazard ratio for a second live birth with the time elapsed since a first live birth – overview of the models

Model		M1	M2	M3	M4	M5	M6
Women with at least		one live birth			two live births		
Event AFTER		no tv	time variance		no tv	time variance	
Sample		Full sample		2016	Full sample		2016
Variable	Value						
Age at first live birth	18	1.38	1.30		1.14	1.11	
	19	1.21	1.16		1.04	1.02	
	20	1.11	1.08		0.98	0.97	
	21	1.05	1.03		0.93	0.93	
	22	0.98	0.97		0.95	0.94	
	23	0.97	0.96		0.95	0.95	
	24	0.97	0.96		0.95	0.95	
	25			reference group			
	26	1.04	1.04	1.08	1.09	1.09	1.25
	27	1.06	1.06	1.10	1.19	1.20	1.70
	28	1.07	1.07	1.03	1.30	1.30	2.80
	29	1.02	1.03	0.93	1.38	1.39	4.01
	30	0.99	1.00	0.91	1.44	1.44	4.84
	31	0.93	0.93	0.84	1.50	1.49	7.54
	32	0.79	0.80	0.73	1.57	1.55	10.26
	33	0.71	0.71	0.65	1.61	1.59	12.10
	34	0.65	0.66	0.58	1.78	1.75	18.90
	35	0.51	0.52	0.46	1.81	1.78	24.34
	36	0.45	0.46	0.41	1.84	1.79	29.01
	37	0.39	0.40	0.43	2.25	2.16	46.97
	38	0.27	0.27	0.30	2.27	2.23	59.33
	39	0.21	0.22	0.26	2.29	2.28	71.98
	40	0.15	0.16	0.19	2.99	3.01	101.08
Cohort	1976			reference group			
	1979	1.08	1.08	1.23	1.06	1.06	1.56
	1982	1.12	1.11	1.76	1.14	1.13	3.39
	1985	1.09	1.09	1.71	1.21	1.21	7.70
	1988	1.02	1.02	1.50	1.34	1.34	19.19
	1991	0.99	1.00	1.33	1.57	1.56	53.23
Type of (one) other reproductive event BEFORE a first live birth	None			reference group			
	Treatment	1.01	0.86	0.88	1.34	1.16	1.06
	Stillbirth	1.01	0.99	0.97	1.09	1.08	1.18
	Other abortions	0.94	0.90	1.17	1.05	1.04	1.00
	Miscarriage	1.16	1.14	1.30	1.08	1.07	1.08
	Induced abortion	0.85	0.83		0.96	0.95	
	on request			0.84			1.03
	medical and other			1.13			0.98
Type of (one) other reproductive event AFTER a first live birth	None			reference group			
	Treatment	0.79	2.83	3.25	0.59	1.34	1.35
	Other abortions	0.52	1.33	1.14	0.60	0.90	0.87
	Miscarriage	0.91	2.00	1.98	0.64	0.98	0.87
	Induced abortion	0.41	0.83		0.60	0.76	
	on request			0.47			0.60
	medical and other			1.55			0.78