

Appendix B: Women's risk of next birth, by select characteristics Scania, Quebec-St. Lawrence, Quebec-Saguenay Lac St. Jean and Utah, 1650-1900, full table					Appendix B: Women's risk of next birth, by select characteristics Scania, Quebec-St. Lawrence, Quebec-Saguenay Lac St. Jean and Utah, 1650-1900, full table				
Birth Intervals 2+, No Fixed Effects					Birth Intervals 9+, No Fixed Effects				
Paternal Grandmother status (ref: dead 5+ years)	31: Scania H.R. P>z	32: QC St. Law. H.R. P>z	33: QC Saguenay H.R. P>z	34: Utah H.R. P>z	Paternal Grandmother status (ref: dead 5+ years)	55: QC St. Law. H.R. P>z	56: QC Saguenay H.R. P>z	57: Utah H.R. P>z	
Alive & in same parish	1.142 0.014	1.092 0	1.116 0.000	1.019 0	Alive & in same parish	1.073 0.013	1.225 0.000	1.026 0.007	
Alive & in different parish		1.092 0	1.094 0.000	1.014 0.001	Alive & in different parish	1.151 0	1.133 0.000	1.022 0.128	
Dead 0-4 years	1.200 0.015	1.067 0	1.052 0.027	1.021 0	Dead 0-4 years	1.099 0.001	1.032 0.403	1.009 0.469	
Outmigrated	1.052 0.704				Outmigrated				
Control variables					Control variables				
Mother's age at previous birth (t.v.)	1.390 0.000	1.179 0	1.108 0.000	0.975 0	Mother's age at previous birth (t.v.)	1.111 0	1.081 0.018	0.958 0.057	
Mother's age at previous birth, squared (t.v.)	0.993 0.000	0.996 0	0.997 0.000	1 0	Mother's age at previous birth, squared (t.v.)	0.997 0	0.997 0.000	1 0.171	
Father's sibship size	1.019 0.065	1.006 0	1.013 0.000	1 0.873	Father's sibship size	0.973 0	1.007 0.096	1.001 0.496	
Birth rank of previous child	1.042 0.003	1.013 0	1.013 0.000	1.005 0	Birth rank of previous child	0.972 0.000	0.954 0.000	1.016 0	
Previously-born child died before age 1 (t.v.) (ref: alive)	2.299 0.000	1.767 0	1.362 0.000	1.117 0	Previously-born child died before age 1 (t.v.) (ref: alive)	1.598 0	1.298 0.000	1.104 0	
Previously-born child - destiny unknown (t.v.) (ref: alive)		1.068 0			Previously-born child - destiny unknown (t.v.) (ref: alive)	1.115 0.002			
Year (t.v.)	0.998 0.034	1.000 0.632	0.999 0.200	0.998 0	Year (t.v.)	0.999 0.02	0.999 0.287	0.999 0.001	
Latter-day Saint status (ref: no) (Utah only)				0.989 0	Latter-day Saint status (ref: no) (Utah only)			1.008 0.335	
Urban-Rural Status (ref: rural)			1.012 0.455		Urban-Rural Status (ref: rural)		0.997 0.915		
Semi-urban			0.996 0.839		Semi-urban		0.927 0.034		
Urban		1.024 0.125		0.991 0.001	Urban	1.056 0.065		0.998 0.804	
Number of births	1,802	54,388	24,670	65,779	Number of births	10,647	7,115	3,699	
Number of mothers	640	7,173	2,976	13,116	Number of mothers	2,822	1,849	1,508	
Total time at risk	6,947	1,605,753	735,029	57,194,620	Total time at risk	388,874	275,633	3,303,371	

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Birth Intervals 2+, Fixed Effects					Birth Intervals 9+, Fixed Effects				
Paternal Grandmother status (ref: dead 5+ years)	35: Scania H.R. P>z	36: QC St. Law. H.R. P>z	37: QC Saguenay H.R. P>z	38: Utah H.R. P>z	Paternal Grandmother status (ref: dead 5+ years)	58: QC St. Law. H.R. P>z	59: QC Saguenay H.R. P>z	60: Utah H.R. P>z	
Alive & in same parish	0.975 0.847	1.061 0.041	1.019 0.587	1.034 0.004	Alive & in same parish	0.8795 0.081	0.955 0.576	1.088 0.113	
Alive & in different parish		1.091 0.003	1.040 0.304	1.024 0.034	Alive & in different parish	0.9045 0.172	0.925 0.361	1.044 0.325	
Dead 0-4 years	1.037 0.736	1.081 0	1.025 0.407	1.035 0.01	Dead 0-4 years	1.0057 0.91	0.947 0.373	1.05 0.445	
Outmigrated	0.526 0.488				Outmigrated				
Control variables					Control variables				
Mother's age at previous birth (t.v.)	1.366 0.000	1.187 0	1.128 0.000	0.978 0	Mother's age at previous birth (t.v.)	1.2088 0	1.176 0.000	0.987 0.815	
Mother's age at previous birth, squared (t.v.)	0.994 0.000	0.996 0	0.997 0.000	1 0	Mother's age at previous birth, squared (t.v.)	0.9963 0	0.997 0.000	1 0.898	
Birth rank of previous child	0.943 0.016	0.972 0	0.973 0.000	0.991 0	Birth rank of previous child	0.8864 0	0.864 0.000	0.992 0.414	
Previously-born child died before age 1 (t.v.) (ref: alive)	2.873 0.000	1.896 0	1.441 0.000	1.118 0	Previously-born child died before age 1 (t.v.) (ref: alive)	1.720 0	1.412 0.000	1.099 0.01	
Previously-born child - destiny unknown (t.v.) (ref: alive)		1.124 0			Previously-born child - destiny unknown (t.v.) (ref: alive)	1.2033 0			
Year (t.v.)	0.985 0.026	0.992 0	0.990 0.000	0.995 0	Year (t.v.)	0.9711 0	0.973 0.000	0.998 0.481	
Latter-day Saint status (ref: no) (Utah only)				0.982 0.01	Latter-day Saint status (ref: no) (Utah only)			1.002 0.96	
Urban-Rural Status (ref: rural)			0.956 0.051		Urban-Rural Status (ref: rural)		0.965 0.469		
Semi-urban			1.001 0.974		Semi-urban		0.991 0.890		
Urban		1.018 0.508		0.981 0.058	Urban	1.0286 0.672		0.945 0.257	
Number of births	1,802	41,416	24,670	65,779	Number of births	10,647	7,115	3,699	
Number of mothers	640	5,626	2,976	13,116	Number of mothers	2,822	2	1,508	
Total time at risk	6,947	1,181,539	735,029	57,194,620	Total time at risk	388,874	275,633	3,303,371	

Q-SL = Quebec - St. Lawrence Valley

Q-Sag = Quebec Saguenay Lac St-Jean region

Blank cells = information not available or not applicable

Scania: "same parish" = 5-parish region (very local)

Sources: Scania: SEDD 2017; Q-SL: PRDH - RPQA 2014; Q-Sag: BALSAC 2017; Utah: UPDB 2014

Appendix B: Women's risk of next birth, by select characteristics Scania, Quebec-St. Lawrence, Quebec-Saguenay Lac St. Jean and Utah, 1650-1900, full table				
Birth Intervals 2 & 3, No Fixed Effects				
Paternal Grandmother status (ref: dead 5+ years)	39: Scania H.R. P>z	40: QC St. Law. H.R. P>z	41: QC Saguenay H.R. P>z	42: Utah H.R. P>z

Alive & in same parish	1.107	0.245	1.062	0.025	1.081	0.042	1.011	0.066
Alive & in different parish			1.043	0.105	1.064	0.129	1.019	0.051
Dead 0-4 years	1.157	0.243	1.076	0.041	1.072	0.199	1.009	0.16
Outmigrated	1.438	0.095						
Control variables								
Mother's age at previous birth (t.v.)	1.301	0.000	1.107	0	1.062	0.013	0.991	0.053
Mother's age at previous birth, squared (t.v.)	1.315	0.000	0.998	0	0.998	0.000	1	0.234
Father's sibship size	1.030	0.064	1.012	0	0.682	0.014	1	0.583
Birth rank of previous child	0.854	0.048	0.671	0	1.307	0.000	0.95	0
Previously-born child died before age 1 (t.v.) (ref: alive)	2.365	0.000	1.760	0	1.002	0.000	1.161	0
Previously-born child - destiny unknown (t.v.) (ref: alive)			1.093	0.021				
Year (t.v.)	0.999	0.626	1.001	0.016	0.999	0.027	0.997	0
Latter-day Saint status (ref: no) (Utah only)							0.986	0
Urban-Rural Status (ref: rural)								
Semi-urban					1.043	0.197		
Urban			0.975	0.404	1.033	0.477	0.983	0
Number of births	714		10,551		5,648		22,942	
Number of mothers	570		3,391		2,962		12,568	
Total time at risk	2,271		248,742		134,790		18,576,159	

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Birth Intervals 2 & 3, Fixed Effects								
Paternal Grandmother status (ref: dead 5+ years)	43: Scania		44: QC St. Law.		45: QC Saguenay		46: Utah	
	H.R.	P>z	H.R.	P>z	H.R.	P>z	H.R.	P>z
Alive & in same parish	0.862	0.621	1.125	0.177	0.941	0.593	1.045	0.124
Alive & in different parish			1.128	0.168	0.978	0.858	1.037	0.186
Dead 0-4 years	0.932	0.780	1.165	0.03	1.096	0.347	1.043	0.18
Outmigrated	3.00E+12	1.000						
Control variables								
Mother's age at previous birth (t.v.)	1.223	0.058	1.140	0	1.019	0.612	1.002	0.881
Mother's age at previous birth, squared (t.v.)	0.996	0.022	0.997	0	0.999	0.175	1	0.98
Birth rank of previous child	0.571	0.000	0.623	0	0.633	0.000	0.936	0
Previously-born child died before age 1 (t.v.) (ref: alive)	2.884	0.000	2.201	0	1.605	0.000	1.146	0
Previously-born child - destiny unknown (t.v.) (ref: alive)			1.126	0.046				
Year (t.v.)	1.001	0.963	1.004	0.153	1.006	0.099	0.995	0
Latter-day Saint status (ref: no) (Utah only)							0.977	0.054
Urban-Rural Status (ref: rural)								
Semi-urban					1.026	0.695		
Urban			0.998	0.975	1.041	0.679	0.973	0.171
Number of births	714		11,235		5,648		22,942	
Number of mothers	570		3,391		2,962		12,568	
Total time at risk	2,271		248,742		134,790		18,576,159	

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Birth Intervals 4+, No Fixed Effects								
Paternal Grandmother status (ref: dead 5+ years)	47: Scania		48: QC St. Law.		49: QC Saguenay		50: Utah	
	H.R.	P>z	H.R.	P>z	H.R.	P>z	H.R.	P>z
Alive & in same parish	1.162	0.031	1.095	0	1.125	0.000	1.02	0
Alive & in different parish			1.107	0	1.099	0.000	1.012	0.015
Dead 0-4 years	1.268	0.012	1.064	0	1.041	0.109	1.025	0
Outmigrated	0.908	0.572						
Control variables								
Mother's age at previous birth (t.v.)	1.630	0.000	1.254	0	1.170	0.000	0.979	0
Mother's age at previous birth, squared (t.v.)	0.991	0.000	0.995	0	0.996	0.000	1	0
Father's sibship size	1.012	0.396	1.004	0.047	1.014	0.000	1	0.498
Birth rank of previous child	1.062	0.001	1.026	0	1.019	0.000	1.015	0
Previously-born child died before age 1 (t.v.) (ref: alive)	2.287	0.000	1.757	0	1.383	0.000	1.101	0
Previously-born child - destiny unknown (t.v.) (ref: alive)			1.064	0.004				
Year (t.v.)	0.997	0.027	1.000	0.424	0.999	0.018	0.998	0
Latter-day Saint status (ref: no) (Utah only)							0.994	0.035
Urban-Rural Status (ref: rural)								
Semi-urban					1.000	0.985		

Urban		1.047	0.011	0.981	0.389	0.994	0.034
Number of births	1,088	30,865		19,022		38,562	
Number of mothers	465	4,836		2,703		9,522	
Total time at risk	4,677	932,797		600,240		34,712,062	

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Scania, Quebec-St. Lawrence, Quebec-Saguenay Lac St. Jean and Utah, 1650-1900, full table							
	Birth Intervals 4+, Fixed Effects						
	51: Scania		52: QC St. Law.		53: QC Saguenay		54: Utah
	H.R.	P>z	H.R.	P>z	H.R.	P>z	H.R. P>z
Paternal Grandmother status (ref: dead 5+ years)							
Alive & in same parish	0.830	0.334	1.008	0.816	1.023	0.591	1.039 0.012
Alive & in different parish			1.069	0.058	1.028	0.532	1.022 0.116
Dead 0-4 years	1.091	0.557	1.061 0.024		1.002	0.964	1.043 0.017
Outmigrated	0.000	1.000					
Control variables							
Mother's age at previous birth (t.v.)	1.759	0.000	1.285	0	1.229	0.000	0.983 0.007
Mother's age at previous birth, squared (t.v.)	0.990	0.000	0.995	0	0.996	0.000	1 0.026
Birth rank of previous child	0.932	0.056	0.980	0	0.974	0.000	1.002 0.391
Previously-born child died before age 1 (t.v.) (ref: alive)	2.726	0.000	1.877	0	1.468	0.000	1.104 0
Previously-born child - destiny unknown (t.v.) (ref: alive)			1.143	0			
Year (t.v.)	0.973	0.006	0.988	0	0.986	0.000	0.996 0
Latter-day Saint status (ref: no) (Utah only)							0.986 0.139
Urban-Rural Status (ref: rural)							
Semi-urban					0.950	0.052	
Urban			1.061	0.071	0.973	0.465	0.981 0.162
Number of births	1,088		30,865		19,022		38,562
Number of mothers	456		4,836		2,703		9,522
Total time at risk	4,677		932,797		600,240		34,712,062