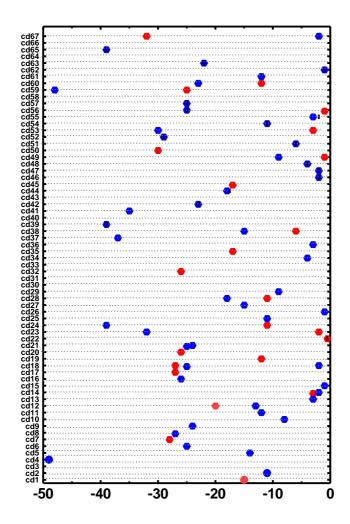
reported exposure	cervical dystonia patients	unaffected siblings	p-value
	n/N (%)	n/N (%)	
perinatal adversity	17/51 (33.3%)	19/47 (40.4%)	0.467
developmental delay	3/53 (5.7%)	1/56 (1.8%)	0.282
childhood infection	53/60 (88.3%)	52/61 (85.2%)	0.616
vaccines	44/48 (91.7%)	36/40 (90%)	0.787
neck/ torso injury	9/39 (23.1%)	5/36 (13.9%)	0.308
all head injuries	15/53 (28.3%)	8/47 (17%)	0.181
head injury without LOC	7/53 (13.2%)	5/47 (10.6%)	0.693
head injury with LOC	8/53 (15.1%)	3/47 (6.4%)	0.165
anaesthetic	44/62(71%)	37/58 (63.8%)	0.402
depression	5/49 (10.2%)	1/47 (2.1%)	0.102
surgeries	52/55 (94.5%)	43/59 (72.9%)	0.002*
tonsillectomy	14/56 (25%)	10/55 (18.2%)	0.383
appendicectomy	12/55 (21.8%)	8/53 (15.1%)	0.585
wisdom tooth extraction	11/47 (23.4%)	7 (23.4%) 8/49 (16.3%)	
other tooth extraction	23/37 (62.2%)	21/39 (53.8%)	0.463
other surgery	30/59 (50.8%)	25/52 (48.1%)	0.771
car accident/ no hospital	10/56 (17.9%)	7/60 (11.7%)	0.346
attendance			
car accident / hospital attendance	13/56 (23.2%)	2/60 (3.3%)	0.001*
llmb injury	19/45 (42.2%)	19/45 (42.2%) 17/43 (39.5%)	
smoking	37/67 (55.2%)	40/66 (60.6%%)	0.530
tea	56/58 (96.6%)	54/58 (93.1%)	0.402
coffee	37/61 (60.7%)	42/63 (66.7%)	0.486

supplementary table e-1: all chi- squared (*X*²) frequencies in cases versus

controls

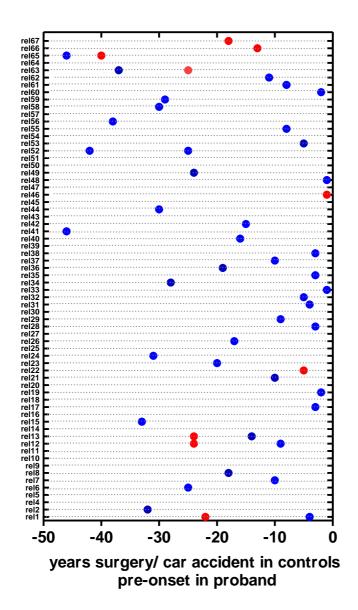
reported exposure	beta	p-value	odds ratio	95% C/I
perinatal adversity	-0.305	0.467	0.74	0.32-1.68
developmental delay	1.194	0.308	3.30	0.33-32.76
childhood infection	0.270	0.617	1.31	0.45-3.78
vaccines	0.201	0.787	1.22	0.29- 5.23
neck/ torso injury	0.621	0.312	1.86	0.56- 6.20
all head injuries	0.655	0.185	1.92	0.73- 5.06
head injury without LOC	0.362	0.564	1.44	0.42- 4.92
head injury with LOC	1.007	0.159	2.74	0.66- 11.10
anaesthetic	0.327	0.402	1.39	0.65- 3.0
depression	1.65	0.138	5.23	0.59- 46.54
surgeries	1.86	0.005*	6.45	1.76- 23.61
tonsillectomy	0.405	0.385	1.50	6.0- 3.74
appendicectomy	0.451	0.371	1.57	0.59- 4.21
wisdom tooth extraction	0.449	0.386	1.57	0.57- 4.32
other tooth extraction	0.342	0.464	1.41	0.56- 3.41
other surgery	0.111	0.771	1.12	0.53- 2.36
all car accidents	1.37	0.002*	3.95	1.63- 9.58
car accident/ no hospital	0.541	0.143	2.21	0.77- 6.38
attendance				
car accident/ hospital	2.31	0.004*	10.05	2.13- 47.41
attendance				
limb injury	0.111	0.798	1.12	0.48- 2.62
smoking	-0.221	0.530	0.80	0.40- 1.60
tea	0.730	0.411	2.07	0.37- 11.79
coffee	-0.260	0.487	0.77	0.37- 1.61

supplementary table e-2: binary univariate logistic regression results in cases versus controls and their associated p-values.



years surgery/ car accident pre-onset

supplementary graph e-3: graph shows each proband (cd61-67) represented on the y-axis with corresponding points relating to years of relevant event (last surgery; in blue, or last car accident; in red) from onset of dystonia are points on the x-axis. Abbreviations: "cd" cervical dystonia.



supplementary graph e-4: graph shows each unaffected relative of each proband (rel_61-67) represented on the y-axis with corresponding points relating to years of relevant event (last surgery; in blue, or last car accident; in red) from onset of dystonia are points on the x-axis. Abbreviations: "rel" unaffected relative.

Legends for supplementary tables:

Abbreviation: LOC: loss of consciousness.

cases versus controls are shown. Number of individuals reporting the exposure (n), total number of individuals who answered the question (N), percentages who reported the exposure (%) are shown, in addition to p-values. Significant associations are marked with an asterisk. All variables are shown including nonsignificant results. Abbreviation: LOC: loss of consciousness **supplementary table e-2**: All univariate binary logistic regression results in cases versus controls are shown. Odds ratios, 95% confidence intervals and pvalues are shown in relation to each variable. Significant p-values are marked with an asterisk. All variables are shown including non-significant results.

supplementary table e-1: Chi- squared (X^2) frequencies of various exposures in

supplementary graph e-3: : graph shows each proband (c61-67) represented on the y-axis with corresponding points relating to years of relevant event (last surgery; in blue, or last car accident; in red) from onset of dystonia are points on the x-axis. Relevant events are those (all car accidents and all surgical procedures) that were present in a significantly higher proportion of probands than unaffected siblings. Abbreviations: "cd" cervical dystonia

supplementary graph e-4: graph shows each unaffected relative of each proband (rel 61-67) represented on the y-axis with corresponding points relating to years of relevant event (last surgery; in blue, or last car accident; in red) from onset of dystonia are points on the x-axis. Relevant events are those (all car accidents and all surgical procedures) that were present in a significantly higher proportion of probands than unaffected siblings. Abbreviations: "rel" unaffected relative.