

Supplementary Online Content

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This supplementary material has been provided by the authors to give readers additional information about their work.

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Table S1. Sample sizes used for each analysis including the number of individuals who underwent surgery between birth and 9 years, number diagnosed with a particular disease after 9 years and up to 30 years of age, and total sample size available. Sample sizes represent those after all exclusions have been applied and are thus smaller than the sample in Table 1.

Disease	adenoidectomy			tonsillectomy			adenotonsillectomy		
	Surgery (n)	Disease (n)	Total (n)	Surgery (n)	Disease (n)	Total (n)	Surgery (n)	Disease (n)	Total (n)
infectious/parasitic all	14508	37433	1061466	9852	36972	1056810	26456	37618	1073414
all	16813	17503	1154039	11542	17283	1148768	30516	17588	1167742
rhinitis	17293	8875	1171807	11783	8748	1166297	31206	8903	1185720
allergic conjunctivitis	17462	1948	1175146	11830	1916	1169514	31377	1957	1189061
eczema/dermatitis	17046	4853	1162563	-	-	-	30883	4880	1176400
urticaria/angiodema	17399	4645	1171672	11769	4595	1166042	31229	4667	1185502
skin all	16750	51882	1138501	11274	51259	1133025	29936	52284	1151687
autoimmune all	16905	23536	1154549	11582	23256	1149226	30654	23698	1168298
all	677	50906	960489	-	-	-	-	-	-
upper	869	33148	1054535	140	33109	1053806	-	-	-
lower	14325	7389	1083597	10355	7244	1079627	27359	7413	1096631
respiratory chronic lower	15781	22967	1123530	11037	22684	1118786	29046	23174	1136795
asthma	15994	22726	1127539	11077	22450	1122622	29231	22939	1140776
influenza	17394	2832	1173084	11794	2787	1167484	31278	2856	1186968
pneumonia	15253	6734	1114290	10837	6597	1109874	28660	6741	1127697
COPD	17353	701	1173478	-	-	-	-	-	-
digestive all	15897	61591	1116977	11054	60823	1112134	29366	61969	1130446
endocrine all	16707	26761	1157402	11549	26355	1152244	30511	27001	1171206
obesity	17405	16710	1173967	11788	16452	1168350	31257	16886	1187819
genitourinary all	16969	24206	1157015	11511	23907	1151557	30684	24372	1170730
kidney infection	17246	3785	1169259	11723	3732	1163736	31123	3803	1183136
musculoskeletal all	16898	109299	1144964	11433	108111	1139499	30319	110222	1158385
neoplasms all	17152	29050	1164289	11669	28698	1158806	30975	29224	1178112
benign	17220	25081	1166731	11703	24796	1161214	31047	25245	1180558
circulatory all	17262	12991	1172014	11787	12813	1166539	31263	13093	1186015
nervous all	17183	8193	1170431	11757	8050	1165005	31188	8197	1184436
eye/adnexa all	8086	30052	1111548	10415	30070	1113877	25783	30514	1129245
mental all	17460	48824	1174924	11830	48167	1169294	31368	49174	1188832

Footnotes: Numbers are presented only for analyses with sufficient power for hypothesis testing (see methods)

Table S2. ICD-8 and ICD-10 classification codes used for A. main outcome diseases tested, B. covariate effects, C. conditions surgeries treat and D. non-immune diseases. Surgeries include adenoidectomy, tonsillectomy and adenotonsillectomy.

A. MAIN DISEASES	
Infectious/parasitic – all	ICD-8: 00009,00019,00099,00199,00209,00219,00299,00300,00301,00308, 00309,00390,00391,00398,00399,00409,00419,00429,00439,00489, 00499,00509,00519,00529,00589,00599,00609,00690,00698,00699, 00709,00719,00720,00799,00809,00819,00820,00821,00829,00839, 00880,00889,00890,00899,00909,00919,00920,00921,00922,00928, 00929,00999,01099,01100,01101,01102,01103,01104,01105,01108, 01109,01200,01201,01208,01209,01210,01211,01218,01219,01229, 01239,01290,01291,01292,01299,01300,01301,01308,01309,01390, 01391,01399,01400,01401,01402,01409,01509,01519,01529,01589, 01599,01600,01601,01602,01603,01604,01605,01606,01608,01609, 01700,01701,01702,01708,01709,01710,01718,01719,01729,01739, 01790,01799,01809,01819,01899,01900,01901,01902,01903,01904, 01908,01909,01919,01920,01921,01929,01930,01931,01932,01938, 01939,01999,02009,02099,02199,02299,02309,02319,02329,02399, 02499,02599,02609,02700,02701,02708,02709,02719,02790,02799, 03009,03019,03029,03039,03099,03199,03299,03319,03399,03400, 03401,03409,03410,03411,03419,03599,03609,03610,03611,03612, 03618,03619,03689,03699,03799,03809,03819,03829,03880,03889, 03899,03909,03919,03990,03991,03992,03993,03999,04000,04009, 04199,04299,04399,04499,04509,04519,04599,04699,05009,05019, 05099,05199,05200,05201,05208,05209,05300,05301,05302,05303, 05308,05309,05400,05401,05402,05403,05404,05408,05409,05500, 05501,05508,05509,05600,05601,05608,05609,05709,05719,05789, 05799,06009,06099,06199,06209,06219,06239,06299,06309,06329, 06399,06499,06599,06600,06608,06609,06709,06749,06759,06799, 06809,06819,06829,06899,07000,07001,07002,07003,07004,07005, 07006,07007,07008,07009,07199,07200,07201,07202,07203,07204, 07208,07209,07399,07409,07419,07429,07499,07500,07501,07508, 07509,07699,07799,07809,07819,07829,07889,07899,07909,07910, 07911,07918,07919,07929,07939,07949,07951,07959,07982,07983, 07984,07989,07999,08099,08109,08119,08129,08199,08209,08219, 08229,08299,08309,08319,08389,08399,08409,08419,08429,08439, 08449,08459,08480,08489,08499,08509,08519,08599,08609,08699, 08709,08719,08789,08799,08809,08819,08899,08909,08999,10009, 10080,10089,10099,10199,10209,10219,10229,10269,10289,10299, 10309,10339,10399,10409,10499,11000,11001,11002,11003,11004, 11005,11008,11009,11109,11119,11129,11180,11189,11199,11200, 11201,11208,11209,11399,11499,11599,11609,11699,11709,11719, 11729,11739,11749,11789,11799,12009,12019,12029,12089,12099, 12109,12119,12129,12139,12199,12209,12219,12289,12299,12309, 12319,12329,12339,12349,12369,12399,12499,12509,12519,12529, 12539,12559,12589,12599,12609,12619,12689,12699,12709,12719, 12729,12739,12749,12759,12799,12809,12889,12899,12999,13100, 13101,13108,13109,13200,13201,13208,13209,13309,13399,13409, 13419,13429,13439,13449,13459,13469,13499,13599,13600,13601, 13602,13603,13609
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allergic – rhinitis **ICD-8:** 50700,50701,50702,50703,50708,50709

ICD10: J301,J301A,J301B,J301C,J302,J303,J303A,J304

allergic – **ICD-8:** 36003

conjunctivitis **ICD10:** H101,H101A

allergic – **ICD-8:** 69100,69101,69108,69109,69200,69201,69202,69203,69209,69210,
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allergic –	ICD-8: 70809,70890,70891,70899
urticaria/angiodema	ICD10: L50,L500,L501,L502,L502A,L502B,L503,L504,L505,L506, L506A,L508,L508A,L508B,L508C,L508D,L508E,L509
skin – all	ICD-8: 68009,68019,68029,68039,68049,68059,68069,68080,68081,68089, 68099,68100,68101,68102,68103,68104,68105,68106,68107,68108, 68109,68200,68201,68202,68209,68219,68229,68239,68249,68259, 68290,68299,68399,68400,68408,68409,68500,68501,68509,68600, 68608,68609,68619,68690,68692,68693,68694,68695,68696,68699, 69000,69001,69002,69003,69008,69009,69300,69308,69309,69400, 69401,69402,69403,69405,69408,69409,69519,69529,69530,69538, 69539,69549,69590,69591,69599,69609,69610,69619,69620,69621, 69628,69629,69639,69649,69650,69659,69699,69709,69719,69790, 69799,69809,69819,69829,69830,69831,69839,69849,69890,69899, 70099,70100,70101,70108,70109,70110,70112,70114,70115,70118, 70119,70129,70139,70190,70191,70199,70200,70201,70202,70203, 70209,70300,70301,70302,70303,70304,70305,70308,70309,70400, 70401,70402,70403,70404,70405,70406,70408,70409,70509,70519, 70590,70591,70592,70593,70599,70700,70701,70708,70709,70809, 70890
	ICD10: L00,L009,L009A,L009B,L01,L010,L010A,L010B,L011,L02, L020,L020A,L020B,L020C,L021,L021A,L021B,L021C,L022,L022A, L022B,L022C,L022D,L022E,L022F,L022G,L022H,L022I,L022J,L022K, L022L,L022N,L022O,L022P,L022Q,L022R,L022S,L022T,L023,L023A, L023B,L023C,L023D,L024,L024A,L024B,L024C,L024D,L024E,L024F, L024G,L024H,L024I,L024J,L024K,L024L,L024M,L028,L028A,L028B, L028C,L029,L029A,L029B,L029C,L03,L030,L030A,L030B,L030C, L030D,L030E,L030F,L030G,L030H,L030I,L030J,L030K,L031,L031A, L031B,L031C,L031D,L031E,L031F,L031G,L031H,L031I,L032,L033, L033A,L033B,L033C,L033D,L033E,L033F,L038,L038A,L038B,L039, L039A,L04,L040,L040A,L040B,L040C,L041,L042,L042A,L043, L048,L049,L05,L050,L059,L08,L080,L080A,L081,L088, L088A,L088B,L088C,L089,L10,L100,L101,L102,L103,L104, L104A,L108,L108A,L109,L11,L110,L111,L118,L119,L12, L120,L121,L121A,L123,L128,L129,L13,L130,L131,L131A, L138,L138A,L138B,L138C,L139,L20,L200,L200A,L208,L208A, L208B,L208C,L208D,L209,L21,L210,L210A,L210B,L218,L218A, L218B,L218C,L218E,L218F,L218G,L219,L28,L280,L280A,L280B, L280C,L281,L282,L282A,L282B,L282C,L282E,L30,L300,L301, L301A,L301B,L302,L302A,L303,L304,L305,L305A,L308,L308A, L308B,L308C,L308D,L308E,L308F,L308G,L308H,L308I,L309,L40, L400,L400A,L400B,L400C,L401,L401A,L401B,L402,L402A,L402B, L403,L403A,L403B,L404,L405,L408,L408A,L408B,L408C,L408D, L408E,L409,L41,L410,L410A,L410B,L410C,L411,L412,L413, L414,L415,L418,L419,L42,L429,L43,L430,L431,L433, L438,L438A,L438B,L438C,L438D,L438E,L439,L44,L440,L441, L442,L443,L448,L448A,L448B,L448C,L448D,L449,L50,L500, L501,L502,L502A,L502B,L503,L504,L505,L506,L506A,L508, L508A,L508B,L508C,L508D,L508E,L509,L51,L510,L511,L511A, L512,L518,L518A,L519,L52,L529,L53,L531,L532,L533, L538,L538A,L538B,L538C,L538D,L539,L539A,L539B,L60,L600, L601,L602,L603,L603A,L603B,L604,L605,L608,L608A,L608C, L608D,L608E,L608F,L608G,L608H,L608I,L609,L63,L630,L631,

L632,L638,L638A,L639,L64,L648,L649,L65,L650,L651,
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L663,L664,L668,L668A,L669,L67,L670,L671,L671D,L671E,
L678,L678A,L678B,L678D,L679,L68,L682,L683,L688,L689,
L71,L711,L718,L718A,L718B,L718C,L718D,L718E,L719,L72,
L720,L721,L721A,L721B,L722,L728,L729,L73,L730,L731,
L732,L738,L738A,L738B,L738D,L738E,L738F,L738H,L738I,L739,
L74,L740,L741,L742,L743,L744,L744A,L748,L748A,L749,
L75,L750,L751,L752,L752A,L758,L759,L84,L849,L849A,
L849B,L87,L870,L871,L872,L878,L878A,L879,L88,L889,
L889B,L889D,L89,L899,L899A,L899B,L899C,L899D,L899E,L899F,
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L905A,L905B,L905C,L905D,L906,L906A,L906B,L906C,L906D,L908,
L908A,L908B,L908D,L908F,L908G,L908J,L908K,L909,L91,L910,
L910A,L918,L918B,L919,L92,L920,L920A,L920C,L921,L922,
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L984D,L984E,L985,L985A,L985B,L985C,L985D,L985E,L985F,L985G,
L985H,L985I,L986,L988,L988A,L988B,L988C,L988D,L989

autoimmune – all ICD-8: 13599,13601,13602,24200,24401,24503,24900,24901,24902,24903,
24904,24905,24906,24907,24908,24909,25510,26900,28100,28101,
28108,28109,28390,28391,28709,28710,34000,34001,34008,34009,
34809,35400,36401,39099,39109,39119,39129,39199,44301,44302,
44308,44309,44319,44609,44619,44629,44630,44631,44639,44691,
44692,51701,56301,56302,56308,56309,56319,57109,59502,69100,
69308,69309,69400,69401,69402,69403,69405,69408,69409,69529,
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73402,73408,73409,73419,73490,73491

ICD10: D510,D510A,D591,D591A,
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D868E,D868F,D869,E050A,E050B,E063,E063A,E063B,E063C,E10,
E100,E100A,E100B,E100C,E100D,E100E,E100F,E101,E102,E103,
E104,E105,E105A,E105B,E105C,E105D,E106,E107,E108,E109,
E109A,E271A,G122G,G35,G359,G359A,G359B,G359C,G610,G610A,
G700,H201,I00,I009,I009A,I009B,I01,I010,I011,I012,
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K513A,K514,K515,K518,K518A,K518B,K519,K743,K743A,K900,
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L130,L20,L200,L200A,L208,L208A,L208B,L208C,L208D,L209,
L40,L400,L400A,L400B,L400C,L401,L401A,L401B,L402,L402A,
L402B,L403,L403A,L403B,L404,L405,L408,L408A,L408B,L408C,
L408D,L408E,L409,L52,L529,L80,L809,L93,L930,L930A,
L931,L932,L932A,L932B,L932C,L940,L940A,L940B,M023,M05,
M050,M050A,M051,M051B,M051C,M051D,M051E,M051F,M052,M053,
M053A,M053C,M053D,M053E,M058,M059,M06,M060,M061,M062,
M063,M064,M068,M069,M080,M080A,M080B,M081,M082,M082A,

M082B,M084,M088,M088A,M089,M300,M303,M310A,M313,M314,
M315,M315A,M316,M316A,M32,M321,M321A,M321B,M321C,M321D,
M321E,M328,M329,M33,M330,M331,M332,M339,M34,M340,
M341,M348,M348A,M348B,M348C,M349,M350,M350A,M350B,M350C,
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M720,N301

respiratory – all

ICD-8: 46099,46100,46101,46102,46103,46104,46108,46109,46200,46201,
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51119,51120,51121,51122,51129,51299,51300,51301,51302,51309,
51400,51408,51409,51700,51701,51709,51899,51909,51919,51920,
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ICD10: J00,J009,J009A,J009B,J009C,J01,J010,J010A,J010B,J011,
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J030,J038,J039,J039A,J039B,J039C,J039D,J039E,J039F,J04,
J040,J040A,J040B,J040D,J041,J042,J042A,J05,J050,J051,
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J110,J111,J111A,J111B,J111C,J118,J118A,J118B,J118C,J12,
J120,J121,J122,J128,J129,J13,J139,J139A,J139B,J14,
J149,J149A,J149B,J15,J150,J151,J152,J153,J154,J155,
J156,J156A,J157,J158,J159,J16,J160,J168,J18,J180,
J181,J182,J188,J189,J20,J200,J201,J202,J203,J204,
J205,J206,J207,J208,J209,J209A,J21,J210,J218,J219,
J22,J229,J30,J300,J300A,J300B,J301,J301A,J301B,J301C,
J302,J303,J303A,J304,J31,J310,J310A,J310B,J310D,J310E,
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J324,J328,J329,J33,J330,J330A,J330B,J331,J331A,J338,
J338A,J338B,J338C,J338D,J339,J34,J340,J340A,J340B,J340C,
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J841C,J841D,J841E,J842,J843,J848,J848A,J849,J85,J850,
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 J909,J92,J929,J93,J930,J931,J938,J939,J94,J940,
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respiratory – upper **ICD-8:** 46099,46100,46101,46102,46103,46104,46108,46109,46200,46201,
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ICD10: J00,J009,J009A,J009B,J009C,J01,J010,J010A,J010B,J011,
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 J391,J391A,J392,J392A,J392B,J392C,J392D,J398,J399

respiratory – lower **ICD-8:** 46600,46601,46602,46608,46609,48099,48100,48101,48108,48109,
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 48599,48699

ICD10: J12,J120,J121,J122,J128,J129,J13,J139,J139A,J139B,
 J14,J149,J149A,J149B,J15,J150,J151,J152,J153,J154,
 J155,J156,J156A,J157,J158,J159,J16,J160,J168,J18,
 J180,J181,J182,J188,J189,J20,J200,J201,J202,J203,
 J204,J205,J206,J207,J208,J209,J209A,J21,J210,J218,
 J219,J22,J229

**respiratory – lower-
 chronic** **ICD-8:** 49000,49001,49009,49100,49101,49102,49103,49104,49108,49109,
 49200,49201,49208,49209,49300,49301,49302,49308,49309

ICD10: J40,J409,J41,J410,J411,J418,J42,J429,J429A,J429B,
 J43,J430,J430A,J431,J431A,J432,J438,J439,J439A,J44,
 J440,J441,J448,J448A,J448B,J449,J45,J450,J450A,J451,
 J451A,J458,J459,J459A,J46,J469,J47,J479

respiratory – **ICD-8:** 49300,49301,49302,49308,49309

asthma **ICD10:** J45,J450,J450A,J451,J451A,J458,J459,J459A,J46,J469

respiratory – **ICD-8:** 47099,47100,47101,47108,47109,47200,47201,47209,47300,47308
influenza 47309,47400,47408,47409

ICD10: J09,J091,J091A,J091B,J099,J10,J100,J101,J101A,J101B,

	J101C,J108,J108A,J108B,J108C,J11,J110,J111,J111A,J111B, J111C,J118,J118A,J118B,J118C
respiratory – pneumonia	ICD-8: 48099,48100,48101,48108,48109,48209,48219,48229,48239,48290, 48299,48300,48308,48309,48499,48599,48699 ICD10: J12,J120,J121,J122,J128,J129,J13,J139,J139A,J139B, J14,J149,J149A,J149B,J15,J150,J151,J152,J153,J154, J155,J156,J156A,J157,J158,J159,J16,J160,J168,J18, J180,J181,J182,J188,J189
respiratory – COPD	ICD-8: 49100,49101,49102,49103,49104,49108,49109,49200,49201,49208, 49209 ICD10: J41,J410,J411,J418,J42,J429,J429A,J429B,J43,J430, J430A,J431,J431A,J432,J438,J439,J439A,J44,J440,J441, J448,J448A,J448B,J449
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endocrine – obesity ICD-8: 27799

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genitourinary – all

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<p>genitourinary – kidney infection *</p>	<p>ICD-8: 59009,59010,59011,59012,59013,59014,59015,59019,59020,59021,59029,59099</p> <hr/> <p>ICD10: N10,N109,N11,N110,N110A,N111,N111A,N111B,N112,N118,N119,N12,N129</p> <p><i>* does not include urinary tract infections (N39.0, 599.0)</i></p> <hr/> <p>musculoskeletal – all</p> <p>ICD-8: 71000,71001,71002,71003,71004,71008,71009,71199,71219,71229,71239,71249,71259,71300,71301,71302,71303,71304,71305,71306,71308,71309,71310,71311,71312,71313,71314,71315,71318,71319,71490,71491,71492,71493,71494,71499,71599,71609,71619,71709,71719,71729,71790,71791,71799,71899,72000,72001,72002,72003,72008,72009,72010,72011,72012,72013,72018,72019,72029,72030,72031,72032,72038,72039,72199,72220,72221,72222,72223,72224,72225,72289,72299,72309,72319,72390,72391,72392,72393,72394,72395,72399,72409,72419,72499,72500,72501,72509,72510,72511,72519,72589,72599,72699,72709,72719,72729,72739,72749,72759,72769,72779,72789,72799,72809,72819,72829,72839,72849,72859,72869,72879,72889,72890,72899,72900,72901,72902,72903,72904,72905,72906,72907,72909,73099,73100,73101,73102,73103,73104,73105,73108,73109,73299,73309,73319,73390,73391,73392,73393,73399,73400,73401,73402,73408,73409,73419,73490,73491,73499,73500,73501,73502,73503,73504,73508,73509,73699,73799,73800,73801,73802,73803,73804,73805,73806,73809</p> <hr/> <p>ICD10: M00,M000,M000A,M000B,M001,M001A,M002,M002A,M002B,M008,M009,M02,M021,M022,M023,M028,M029,M05,M050,M050A,M051,M051B,M051C,M051D,M051E,M051F,M052,M053,M053A,M053C,M053D,M053E,M058,M059,M06,M060,M061,M062,M063,M064,M068,M069,M11,M110,M112,M112A,M118,M119,M12,M120,M121,M122,M123,M124,M128,M128A,M13,M130,M131,M138,M138A,M139,M15,M150,M151,M152,M153,M153A,M154,M158,M159,M16,M160,M161,M161A,M161B,M162,M163,M163A,M163B,M166,M167,M167A,M167B,M169,M17,M170,M171,M171A,M171B,M174,M175,M175A,M175B,M179,M18,M180,M181,M181A,M181B,M184,M185,M185A,M185B,M189,M19,M190,M190A,M192,M192A,M198,M198A,M199,M30,M300,M301,M303,M308,M308A,M31,M310,M310A,M310B,M311,M311A,M311B,M312,M313,M314,M315,M315A,M316,M316A,M318,M318A,M318B,M319,M33,M331,M332,M339,M34,M340,M341,M348,M348A,M348B,M348C,M349,M35,M350,M350A,M350B,M350C,M350D,M350E,M351,M351A,M352,M353,M354,M355,M356,M358,M359,M40,M400,M401,M401A,M402,M402A,M403,M404,M404A,M404B,M404C,M405,M41,M412,M413,M413A,M415,M415A,M415B,M418,M419,M42,M421,M429,M43,M430,M431,M432,M432A,M433,M434,M434A,M435,M435A,M436,M438,M439,M45,M459,M459A,M459B,M46,M460,M461,M462,M463,M463A,M464,M465,M465A,M468,M469,M47,M470,M470A,M470B,M471,M471A,M471B,M471C,M472,M472A,M472B,M478,M478A,M478B,M478C,M478D,M478E,M479,M48,M480,M481,M481A,M482,M482A,M483,M484,M485,M485A,M485B,M488,M488A,M489,M50,M500,M500A,M500B,M500C,M500D,M500E,M500F,M501,M501A,M501B,M501C,M501D,M501E,M501F,M502,M503,M508,M509,M51,M510,M510A,M510B,M510C,M510D,M510E,M510F,M510G,M511,M511A,M511B,M511C,M511D,M511E,M511F,M511H,M511I,M512,M512A,M512B,M512C,M512D,M512E,M512F,M512G,M513,M513A,M513B,M513C,M514,M518,M519,M53,M530,M530A,M531,M532,M533,M533A,M533B,M538,</p>
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M938,M939,M94,M940,M941,M942,M943,M948,M948A,M948B,
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neoplasms – all

ICD-8: 14009,14019,14029,14099,14109,14119,14129,14139,14199,14209,
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C13,C130,C131,C132,C138,C139,C14,C140,C141,C142,
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circulatory – all

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I741,I741A,I741B,I742,I742A,I742B,I743,I743A,I743B,I744,
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nervous – all

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eye/adnexa – all

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H341B,H342,H342A,H342B,H342C,H348,H348A,H348B,H348C,H348D,
H348E,H348F,H349,H35,H350,H350A,H350B,H350C,H350D,H350E,
H350F,H350G,H350H,H350I,H350J,H350K,H351,H351A,H352,H352A,
H353,H353A,H353B,H353C,H353D,H353E,H353F,H353G,H353H,H353J,
H353K,H353L,H354,H354A,H354C,H354D,H356,H357,H357A,H357B,
H358,H359,H40,H400,H401,H401A,H401B,H401C,H401D,H401E,
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F2060,F2061,F2062,F2063,F2064,F2065,F2069,F208,F2080,F2081,
F2084,F2088,F209,F2090,F2091,F2092,F2093,F2094,F2095,F2098,
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F4488,F449,F45,F450,F451,F452,F452A,F453,F4530,F4531,
F4532,F4533,F4534,F4538,F454,F458,F459,F48,F480,F481,
F488,F489,F60,F600,F601,F602,F6020,F603,F6030,F6031,
F604,F605,F606,F607,F608,F609,F6090,F61,F610,F611,
F619,F68,F680,F681,F688,F69,F690,F699

B. COVARIATE EFFECTS [PRE-EXISTING CONDITIONS]

pre-existing maternal hypertension – essential (primary) hypertension, hypertensive heart disease, hypertensive renal disease, hypertensive heart and renal disease, secondary hypertension	ICD-8:	40009, 40019, 40029, 40039, 40099, 40199, 40299, 40399, 40499
	ICD10:	O10, O100, O100A-0C, O101, O101A-1C, O102, O102A-2C, O103, O103A, O104, O104A-4C, O109, O109A-9C, O11, O119, O119A-9C, I10, I109, I11, I110, I119, I12, I120, I129, I13, I130-2, I139, I15, I150-2, I158-9
pre-existing maternal diabetes – type I (insulin dependent) and type II (non-insulin dependent), malnutrition-related, other, unspecified	ICD-8:	24900-09, 25000-09
	ICD10:	E10, E100, E100A-0F, E101-5, E105A-5D, E106-9, E109A, E11, E110, E110A-0E, E111-5, E115A-5D, E116-9, E119A, E12, E120, E120A-0E, E121-5, E125A-5C, E126-9, E13, E130-9, E14, E140, E140A-0D, E141-5, E145A-5D, E146-9, O240, O240A-0C, O241, O241A-1C, O242, O242A, O243, O243A-3B

B. COVARIATE EFFECTS [PREGNANCY-INDUCED]

maternal bleeding – haemorrhage in early pregnancy, placenta praevia, premature separation of placenta, antepartum haemorrhage	ICD-8:	63209, 63219, 63229, 63239, 63249, 63299, 65100-22, 65124-43, 65145-60, 65163, 65165-66, 65168-80, 65182, 65185-87, 65189-99
	ICD10:	O20, O200, O208, O208A, O208B, O209, O44, O440-3, O449, O45, O450, O450D, O451, O451B, O452-3, O458-9, O46, O460, O468, O468A, O469
fetal oxygen deprivation – intrauterine hypoxia, birth asphyxia	ICD-8:	77639, 77649, 77690-93, 77698-99
	ICD10:	P20, P200, P200A-0E, P201, P201A-1B, P201D-1E, P209, P21, P210, P210A-0D, P211, P211A-1D, P219
pregnancy oedema	ICD-8:	63702
	ICD10:	O12, O120-2

C. CONDITIONS SURGERIES TREAT

abnormal breathing	ICD-8: ICD10: R065,R065A
sleep disorders	ICD-8: 30649,78069 ICD10: G47,G470,G4700,G4703,G471,G4710,G4711,G4712,G4713,G4715, G472,G4720,G4721,G4722,G4723,G4726,G473,G4730,G4731,G4732, G4734,G4735,G4735A,G4735C,G4735E,G4736,G4739,G474,G4741,G4742, G4743,G4744,G474A,G474B,G475,G4750,G4751,G4752,G4753,G4756, G4757,G475W,G476,G4760,G4761,G4762,G4763,G4764,G4765,G4766, G478,G478A,G479,G479A
obstructive sleep apnea	ICD-8: ICD10: G473,G4730,G4731,G4732,G4734,G4735,G4735A,G4735C,G4735E,G4736, G4739
tonsillitis	ICD-8: 46300,46301,46302,46308,46309 ICD10: J03,J030,J038,J039,J039A,J039B,J039C,J039D,J039E,J039F
chronic tonsillitis	ICD-8: 50000,50001,50002,50008,50009, ICD10: J35,J350,J351,J351A,J351B,J352,J353,J358,J358A,J358C, J359
sinusitis	ICD-8: 46100,46101,46102,46103,46104,46108,46109, ICD10: J01,J010,J010A,J010B,J011,J011A,J011B,J012,J012A,J012B, J013,J013B,J014,J014A,J018,J019
chronic sinusitis	ICD-8: 50300,50301,50302,50303,50304,50305,50306,50307,50308,50309 ICD10: J32,J320,J321,J322,J323,J324,J328,J329
otitis media	ICD-8: 38100,38101,38102,38108,38109,38119,38199,38209,38219,38299 ICD10: H650,H650A,H650B,H651,H651A,H651B,H651C,H651D,H651E,H651F H651G,H652,H652A,H653,H653A,H653B,H654,H654A,H654B,H654C H659,H66,H660,H660A,H661,H661A,H662,H663,H664,H669

D. NON-IMMUNE DISEASES

osteoarthritis	ICD-8: 71300,71301,71302,71303,71304,71305,71306,71308,71309,71310,71311,71312,71313,71314,71315,71318,71319
	ICD10: M15,M150,M151,M152,M153,M153A,M154,M158,M159,M16,M160,M161,M161A,M161B,M162,M163,M163A,M163B,M164,M165,M165A,M165B,M166,M167,M167A,M167B,M169,M17,M170,M171,M171A,M171B,M172,M173,M173A,M173B,M174,M175,M175A,M175B,M179,M18,M180,M181,M181A,M181B,M182,M183,M184,M185,M185A,M185B,M189,M19,M190,M190A,M191,M191A,M192,M192A,M198,M198A,M199,M47,M470,M470A,M470B,M471,M471A,M471B,M471C,M472,M472A,M472B,M478,M478A,M478B,M478C,M478D,M478E,M479
cardiac arrhythmias	ICD-8: 427.5,42790,42791,42792,427.4,42793,42794,427.9,42799,78229
	ICD10: I47,I47,I470,I470A,I470B,I470C,I470D,I470H,I470HA,I470HB,I471,I471A,I471B,I471C,I471E,I471EA,I471EB,I471F,I471FA,I471G,I471H,I471J,I471L,I471LA,I471M,I471N,I471P,I471PA,I471PB,I471R,I471RA,I471RB,I471RC,I471X,I472,I472A,I472B,I472D,I472E,I472EA,I472F,I472FA,I472H,I472L,I472LA,I472LB,I472LC,I472M,I472N,I472NA,I478,I478A,I479,I479A,I48,I48,I489,I489A,I489AA,I489AB,I489AC,I489AD,I489AE,I489B,I489BA,I489BB,I489BC,I489BD,I49,I49,I490,I490A,I490B,I491,I491A,I491B,I491C,I491D,I491E,I492,I493,I493A,I493B,I493C,I494,I494A,I495,I495A,I495B,I498,I498A,I498B,I498C,I498D,I498E,I499,I499A,R000,R001
heart failure	ICD-8: 747090,39490,39491,39492,39498,39499,39590,39591,39592,39598,39599,39700,74609,74619,74629,74639,74640,74641,74649,74659,74660,74661,74662,74663,74669,74679,74689,74699,74709,74719,74729,74739,74749,74759,74769,74789,74799
	ICD10: I061,I051,Q250,Q210,I34,I340,I341,I342,I348,I348A,I349,I35,I350,I351,I352,I358,I358A,I359,I36,I360,I361,I362,I368,I368A,I369,I37,I370,I371,I372,I378,I379,Q20,Q200,Q201,Q202,Q203,Q203A,Q204,Q205,Q205B,Q206,Q208,Q209,Q21,Q211,Q211A,Q211B,Q212,Q213,Q213A,Q214,Q218,Q218A,Q218B,Q218C,Q219,Q22,Q220,Q221,Q222,Q223,Q224,Q225,Q226,Q228,Q229,Q23,Q230,Q230A,Q231,Q231A,Q232,Q232A,Q233,Q234,Q238,Q238A,Q238B,Q239,Q24,Q240,Q241,Q242,Q243,Q244,Q245,Q246,Q248,Q248A,Q248D,Q248G,Q248H,Q248I,Q248K,Q249,Q25,Q251,Q251A,Q252,Q253,Q253A,Q254,Q254B,Q254C,Q254E,Q254G,Q254H,Q254I,Q255,Q256,Q257,Q257C,Q257F,Q257G,Q258,Q259,Q26,Q260,Q261,Q262,Q263,Q264,Q265,Q266,Q268,Q268A,Q268B,Q269,Q27,Q270,Q270A,Q270B,Q271,Q272,Q273,Q274,Q278,Q278A,Q278B,Q278C,Q278E,Q278H,Q278J,Q278L,Q279,Q28,Q280,Q281,Q282,Q283,Q283A,Q283B,Q283C,Q283D,Q283E,Q288,Q288A,Q289
acid-peptic disease	ICD-8: 53600,53608,53609,53619,53690,53691,53692,53693,53699
	ICD10: K30,K309
alcoholic hepatitis	ICD-8: 57109
	ICD10: DK701,DK703

Table S3. Relative risk (RR) for non-immune diseases up to age 30 depending on whether any of the three surgeries occurred between birth to 9 years of age.

	adenoidectomy	tonsillectomy	adenotonsillectomy
Disease	RR	RR	RR
osteoarthritis	1.04(0.85-1.29)	1.03(0.75-1.41)	0.87(0.71-1.07)
cardiac arrhythmias	0.99(0.82-1.21)	0.99(0.75-1.31)	1.17(0.99-1.37)
heart failure	1.24(0.95-1.61)	1.28(0.92-1.78)	1.15(0.93-1.42)
acid-peptic disease	1.17(1.01-1.36)	1.36(1.10-1.68)	1.24(1.08-1.41)
alcoholic hepatitis	1.92(0.23-15.84)	-	5.78(1.21-27.59)

Footnotes:

- RR exclusion: Missing relative risks (RR) occur when the exponentiated coefficient for the Cox regression was infinite or there was insufficient power for hypothesis testing (see methods)
- RR p-values: None of the relative risks above were significant after Bonferroni correction for 14 analyses (i.e. $\alpha=0.05/14=0.00357$)

Table S4. Accompanying values for Fig. 1 including relative risks (RR), absolute risk difference (ARD), number needed to treat (NNT(B/H) or benefit/harm)

Disease	adenoidectomy				tonsillectomy				adenotonsillectomy				CR
	RR	ER	ARD	NNT(B/H)	RR	ER	ARD	NNT(B/H)	RR	ER	ARD	NNT(B/H)	
infectious/parasitic all	1.27(1.19-1.36)	15.39	+3.32 %	30 (H)	1.22(1.11-1.35)	14.84	+2.78 %	36 (H)	1.17(1.10-1.25)	14.21	+2.14 %	47 (H)	12.07
all	1.37(1.25-1.51)	3.84	+1.06 %	94 (H)	1.35(1.19-1.54)	3.77	+0.99 %	101 (H)	1.20(1.10-1.31)	3.35	+0.57 %	176 (H)	2.78
rhinitis	1.61(1.42-1.82)	1.36	+0.52 %	193 (H)	1.53(1.29-1.82)	1.29	+0.45 %	220 (H)	1.24(1.10-1.40)	1.05	+0.21 %	479 (H)	0.84
allergic conjunctivitis	1.75(1.35-2.26)	0.37	+0.16 %	624 (H)	1.50(1.03-2.18)	0.32	+0.11 %	937 (H)	1.36(1.07-1.73)	0.29	+0.08 %	1297 (H)	0.21
eczema/dermatitis	1.29(1.07-1.56)	1.80	+0.42 %	241 (H)	-	-	-	-	1.16(0.98-1.38)	-	-	-	1.38
urticaria/angiodema	1.22(1.01-1.46)	0.83	+0.15 %	656 (H)	1.46(1.15-1.86)	1.00	+0.32 %	314 (H)	1.18(0.99-1.39)	-	-	-	0.68
skin all	1.23(1.17-1.30)	7.74	+1.49 %	67 (H)	1.39(1.29-1.49)	8.70	+2.45 %	41 (H)	1.28(1.22-1.34)	8.02	+1.77 %	56 (H)	6.25
autoimmune all	1.19(1.09-1.29)	3.71	+0.60 %	166 (H)	1.15(1.02-1.29)	3.59	+0.47 %	211 (H)	1.17(1.09-1.26)	3.66	+0.55 %	182 (H)	3.11
all	1.48(1.13-1.95)	30.06	+9.87 %	10 (H)	-	-	-	-	-	-	-	-	20.19
upper	1.99(1.51-2.63)	21.54	+10.77 %	9 (H)	2.72(1.54-4.80)	29.38	+18.61 %	5 (H)	-	-	-	-	10.77
lower	1.61(1.42-1.84)	13.38	+5.12 %	20 (H)	1.24(1.01-1.53)	10.30	+2.03 %	49 (H)	1.38(1.21-1.56)	11.41	+3.15 %	32 (H)	8.26
respiratory chronic lower asthma	1.44(1.33-1.56)	8.80	+2.72 %	37 (H)	1.39(1.24-1.55)	8.47	+2.39 %	42 (H)	1.33(1.24-1.43)	8.12	+2.04 %	49 (H)	6.08
influenza	1.45(1.33-1.57)	8.42	+2.62 %	38 (H)	1.41(1.26-1.58)	8.21	+2.41 %	41 (H)	1.34(1.25-1.44)	7.81	+2.01 %	50 (H)	5.80
pneumonia	1.46(1.18-1.81)	0.62	+0.20 %	505 (H)	1.43(1.06-1.93)	0.61	+0.19 %	538 (H)	1.44(1.19-1.74)	0.61	+0.19 %	527 (H)	0.42
COPD	1.65(1.44-1.89)	8.93	+3.53 %	28 (H)	1.28(1.03-1.58)	6.94	+1.54 %	65 (H)	1.32(1.16-1.51)	7.15	+1.75 %	57 (H)	5.40
COPD	2.11(1.53-2.92)	0.54	+0.29 %	349 (H)	-	-	-	-	-	-	-	-	0.25
digestive all	1.13(1.07-1.19)	6.71	+0.78 %	128 (H)	1.16(1.08-1.25)	6.94	+1.01 %	99 (H)	1.14(1.09-1.20)	6.80	+0.87 %	114 (H)	5.93
endocrine all	1.24(1.16-1.34)	3.44	+0.69 %	145 (H)	1.31(1.17-1.45)	3.61	+0.86 %	117 (H)	1.42(1.33-1.51)	3.92	+1.16 %	86 (H)	2.75
obesity	1.19(1.08-1.30)	1.33	+0.22 %	465 (H)	1.40(1.23-1.59)	1.57	+0.45 %	221 (H)	1.47(1.36-1.59)	1.66	+0.54 %	186 (H)	1.12
genitourinary all	1.17(1.08-1.27)	3.36	+0.51 %	197 (H)	1.27(1.13-1.42)	3.62	+0.77 %	129 (H)	1.23(1.14-1.32)	3.51	+0.66 %	152 (H)	2.85
kidney infection	1.41(1.16-1.73)	1.14	+0.34 %	296 (H)	1.28(0.96-1.72)	-	-	-	1.25(1.04-1.50)	1.00	+0.20 %	493 (H)	0.80
musculoskeletal all	1.15(1.10-1.19)	10.30	+1.35 %	74 (H)	1.21(1.15-1.28)	10.91	+1.96 %	51 (H)	1.18(1.14-1.22)	10.63	+1.67 %	60 (H)	8.95
neoplasms all	1.19(1.10-1.29)	3.23	+0.53 %	188 (H)	1.22(1.09-1.35)	3.30	+0.60 %	167 (H)	1.18(1.10-1.26)	3.19	+0.49 %	203 (H)	2.70
benign	1.19(1.09-1.29)	2.72	+0.44 %	227 (H)	1.22(1.09-1.37)	2.79	+0.51 %	195 (H)	1.17(1.09-1.26)	2.67	+0.40 %	253 (H)	2.28
circulatory all	1.11(0.99-1.24)	-	-	-	1.17(0.99-1.37)	-	-	-	1.25(1.14-1.38)	1.40	+0.29 %	347 (H)	1.12
nervous all	1.35(1.19-1.52)	1.21	+0.32 %	317 (H)	1.50(1.26-1.80)	1.35	+0.46 %	220 (H)	1.24(1.10-1.40)	1.11	+0.22 %	453 (H)	0.89
eye/adnexa all	1.34(1.20-1.49)	7.74	+1.98 %	50 (H)	1.25(1.12-1.39)	7.21	+1.46 %	69 (H)	1.23(1.14-1.32)	7.09	+1.34 %	75 (H)	5.75
mental all	1.19(1.13-1.26)	3.46	+0.57 %	176 (H)	1.22(1.12-1.32)	3.54	+0.65 %	155 (H)	1.22(1.16-1.28)	3.53	+0.64 %	156 (H)	2.89

Footnotes:

- CR - Control Risk (i.e. event rate (%) in the control group)
- ER - Experimental Risk (i.e. event rate (%) in the case (surgery) group)
- ARD - Absolute Risk Difference (a.k.a. absolute risk reduction/increase) [ARD=100 X CR X (1-RR)]
- NNT(B/H) - Number Needed to Treat-Benefit or Harm [NNT=100/ARD]
- RR exclusion: Relative risks (RR) are presented only for analyses with sufficient power for hypothesis testing (see methods)
 - > e.g. there was insufficient power for testing COPD and eczema/dermatitis in the tonsillectomy analysis
- ER, ARD and NNT exclusion: these values are presented only when Bonferroni corrected p-value (78 tests; $\alpha=0.05/78=0.000641$) for relative risks (RR) were significant
 - > Bonferroni corrected p-values are given in Fig.1

Table S5 - Full Cox regression outputs - impact of tonsillectomy on risk of later disease.

1. Infectious/parasitic - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.2299	1.1194	1.3513	0.0480	4.3098	<0.0001
paternal age	0.9947	0.9810	1.0087	0.0071	-0.7329	0.4636
maternal age	0.9712	0.9558	0.9869	0.0081	-3.5733	0.0003
gestation length	0.9861	0.9751	0.9973	0.0057	-2.4194	0.0155
maternal bleeding	1.1194	1.0770	1.1634	0.0196	5.7323	<0.0001
fetal oxygen deprivation	0.8436	0.6517	1.0920	0.1316	-1.2912	0.1966
pregnancy oedema	1.0568	0.9652	1.1572	0.0462	1.1950	0.2320
apgar5 score	1.0457	1.0014	1.0920	0.0221	2.0252	0.0428
birth weight	0.9927	0.9823	1.0033	0.0053	-1.3437	0.1790
preexisting hypertension	1.0271	0.7882	1.3386	0.1351	0.1985	0.8425
preexisting diabetes	1.0522	0.8787	1.2598	0.0919	0.5536	0.5798
previous induced abortion	1.0906	1.0627	1.1192	0.0132	6.5663	<0.0001
previous spontaneous abortion	1.0458	1.0166	1.0758	0.0144	3.0998	0.0019
education level	0.9900	0.9781	1.0020	0.0061	-1.6313	0.1028
parental income	0.9885	0.9759	1.0013	0.0065	-1.7547	0.0793
country	1.2804	1.2213	1.3424	0.0241	10.2439	<0.0001
region Sjælland	0.7832	0.7584	0.8088	0.0164	-14.8789	<0.0001
region Syddanmark	0.6843	0.6647	0.7045	0.0148	-25.6018	<0.0001
region Midtjylland	0.7016	0.6819	0.7219	0.0145	-24.3924	<0.0001
region Nordjylland	0.6145	0.5910	0.6388	0.0198	-24.5179	<0.0001
mother with disorder	1.3909	1.3469	1.4363	0.0163	20.1262	<0.0001
father with disorder	1.2472	1.2058	1.2901	0.0172	12.8118	<0.0001

2. Allergic - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.3559	1.1909	1.5437	0.0661	4.5999	<0.0001
paternal age	1.0028	0.9823	1.0237	0.0105	0.2697	0.7873
maternal age	1.0314	1.0074	1.0559	0.0119	2.5806	0.0098
gestation length	0.9966	0.9806	1.0130	0.0082	-0.3994	0.6895
maternal bleeding	1.1283	1.0672	1.1928	0.0283	4.2562	<0.0001
fetal oxygen deprivation	0.6123	0.3902	0.9609	0.2298	-2.1331	0.0329
pregnancy oedema	1.2471	1.1032	1.4097	0.0625	3.5317	0.0004
apgar5 score	1.0872	1.0233	1.1551	0.0308	2.7074	0.0067
birth weight	0.9774	0.9624	0.9926	0.0078	-2.8975	0.0037
preexisting hypertension	0.6993	0.4403	1.1107	0.2360	-1.5148	0.1298
preexisting diabetes	1.0535	0.8035	1.3812	0.1381	0.3771	0.7060
previous induced abortion	1.0356	0.9964	1.0763	0.0196	1.7799	0.0750
previous spontaneous abortion	1.0442	1.0017	1.0884	0.0211	2.0434	0.0410
education level	1.0645	1.0457	1.0837	0.0090	6.8851	<0.0001
parental income	1.0197	1.0006	1.0392	0.0096	2.0228	0.0430
country	1.4006	1.3052	1.5031	0.0360	9.3580	<0.0001
region Sjælland	0.7015	0.6664	0.7385	0.0262	-13.5225	<0.0001
region Syddanmark	1.0262	0.9858	1.0682	0.0204	1.2652	0.2057
region Midtjylland	0.7817	0.7492	0.8156	0.0216	-11.3641	<0.0001
region Nordjylland	0.7070	0.6675	0.7489	0.0293	-11.8104	<0.0001
mother with disorder	1.8600	1.7403	1.9879	0.0339	18.2820	<0.0001
father with disorder	1.7478	1.6085	1.8991	0.0423	13.1795	<0.0001

3. Allergic - rhinitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.5382	1.2932	1.8295	0.0885	4.8655
paternal age	1.0128	0.9834	1.0431	0.0150	0.8486	0.3960
maternal age	1.0714	1.0362	1.1077	0.0170	4.0537	<0.0001
gestation length	1.0011	0.9786	1.0241	0.0116	0.0966	0.9230
maternal bleeding	1.0580	0.9760	1.1469	0.0411	1.3719	0.1700
fetal oxygen deprivation	0.5662	0.2942	1.0896	0.3339	-1.7028	0.0885
pregnancy oedema	1.1823	0.9899	1.4121	0.0906	1.8482	0.0645
apgar5 score	1.0991	1.0109	1.1950	0.0427	2.2138	0.0268
birth weight	0.9839	0.9628	1.0054	0.0110	-1.4639	0.1432
preexisting hypertension	0.6089	0.3042	1.2185	0.3539	-1.4015	0.1610
preexisting diabetes	0.7827	0.5040	1.2157	0.2246	-1.0901	0.2756
previous induced abortion	0.9982	0.9442	1.0552	0.0283	-0.0617	0.9507
previous spontaneous abortion	1.0399	0.9808	1.1027	0.0298	1.3124	0.1893
education level	1.1277	1.0994	1.1567	0.0129	9.2748	<0.0001
parental income	1.0268	0.9994	1.0550	0.0138	1.9173	0.0551
country	1.4448	1.2992	1.6067	0.0542	6.7892	<0.0001
region Sjælland	0.8918	0.8250	0.9640	0.0397	-2.8818	0.0039
region Syddanmark	1.7541	1.6552	1.8589	0.0296	18.9800	<0.0001
region Midtjylland	1.1054	1.0377	1.1776	0.0322	3.1079	0.0018
region Nordjylland	1.2850	1.1904	1.3870	0.0389	6.4311	<0.0001
mother with disorder	3.1501	2.8050	3.5376	0.0591	19.3836	<0.0001
father with disorder	2.8009	2.4327	3.2248	0.0719	14.3247	<0.0001

4. Allergic - conjunctivitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.5005	1.0326	2.1804	0.1906	2.1284
paternal age	1.0129	0.9517	1.0780	0.0317	0.4051	0.6853
maternal age	1.0698	0.9969	1.1482	0.0360	1.8741	0.0609
gestation length	1.0263	0.9780	1.0769	0.0245	1.0580	0.2900
maternal bleeding	1.2087	1.0277	1.4216	0.0827	2.2901	0.0220
fetal oxygen deprivation	0.0000	0.0000	Inf	375.9072	-0.0339	0.9729
pregnancy oedema	1.4339	1.0084	2.0389	0.1795	2.0068	0.0447
apgar5 score	1.1163	0.9374	1.3295	0.0891	1.2352	0.2167
birth weight	1.0095	0.9640	1.0572	0.0235	0.4047	0.6856
preexisting hypertension	0.3289	0.0462	2.3384	1.0007	-1.1110	0.2665
preexisting diabetes	1.2502	0.5928	2.6367	0.3807	0.5866	0.5574
previous induced abortion	1.0699	0.9532	1.2010	0.0589	1.1477	0.2510
previous spontaneous abortion	1.1904	1.0563	1.3415	0.0609	2.8598	0.0042
education level	1.0669	1.0107	1.1262	0.0275	2.3469	0.0189
parental income	1.0354	0.9770	1.0974	0.0296	1.1763	0.2394
country	1.6231	1.3202	1.9953	0.1053	4.5974	<0.0001
region Sjælland	0.6811	0.5728	0.8099	0.0883	-4.3463	<0.0001
region Syddanmark	1.9167	1.7072	2.1518	0.0590	11.0194	<0.0001
region Midtjylland	0.7041	0.6083	0.8148	0.0745	-4.7063	<0.0001
region Nordjylland	0.9790	0.8251	1.1617	0.0872	-0.2420	0.8087
mother with disorder	1.7031	0.8103	3.5793	0.3789	1.4050	0.1600
father with disorder	2.9024	1.3805	6.1024	0.3791	2.8104	0.0049

5. Allergic - eczema/dermatitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.1019	0.8381	1.4486	0.1395	0.6953	0.4868
paternal age	0.9902	0.9521	1.0299	0.0200	-0.4867	0.6264
maternal age	0.9997	0.9558	1.0456	0.0229	-0.0115	0.9907
gestation length	1.0213	0.9900	1.0535	0.0158	1.3308	0.1832
maternal bleeding	1.2004	1.0824	1.3313	0.0527	3.4607	0.0005
fetal oxygen deprivation	0.6863	0.3077	1.5305	0.4091	-0.9198	0.3576
pregnancy oedema	1.3341	1.0635	1.6736	0.1156	2.4927	0.0126
apgar5 score	1.0482	0.9309	1.1802	0.0605	0.7785	0.4362
birth weight	0.9805	0.9521	1.0098	0.0149	-1.3066	0.1913
preexisting hypertension	0.7147	0.2971	1.7194	0.4478	-0.7497	0.4534
preexisting diabetes	1.1093	0.6667	1.8459	0.2598	0.3995	0.6895
previous induced abortion	1.0811	1.0060	1.1619	0.0367	2.1234	0.0337
previous spontaneous abortion	1.0661	0.9856	1.1531	0.0400	1.5993	0.1097
education level	1.0391	1.0044	1.0749	0.0173	2.2178	0.0265
parental income	1.0532	1.0161	1.0917	0.0183	2.8335	0.0046
country	1.2574	1.0953	1.4436	0.0704	3.2532	0.0011
region Sjælland	0.6079	0.5509	0.6707	0.0501	-9.9151	<0.0001
region Syddanmark	0.8919	0.8269	0.9620	0.0386	-2.9625	0.0030
region Midtjylland	0.8007	0.7414	0.8647	0.0392	-5.6603	<0.0001
region Nordjylland	0.3985	0.3492	0.4547	0.0673	-13.6625	<0.0001
mother with disorder	2.4342	2.0175	2.9370	0.0958	9.2859	<0.0001
father with disorder	1.9319	1.4446	2.5836	0.1482	4.4407	<0.0001

6. Allergic - urticaria/angiodema	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.4662	1.1556	1.8604	0.1214	3.1505	0.0016
paternal age	1.0023	0.9639	1.0422	0.0199	0.1173	0.9065
maternal age	0.9915	0.9481	1.0369	0.0228	-0.3720	0.7098
gestation length	0.9868	0.9561	1.0185	0.0161	-0.8205	0.4118
maternal bleeding	1.2402	1.1191	1.3744	0.0524	4.1074	<0.0001
fetal oxygen deprivation	0.5421	0.2031	1.4470	0.5008	-1.2221	0.2216
pregnancy oedema	1.5418	1.2480	1.9049	0.1078	4.0139	<0.0001
apgar5 score	1.1011	0.9793	1.2380	0.0598	1.6112	0.1071
birth weight	0.9722	0.9436	1.0018	0.0152	-1.8420	0.0654
preexisting hypertension	0.7370	0.3062	1.7736	0.4480	-0.6809	0.4958
preexisting diabetes	1.3225	0.8302	2.1068	0.2375	1.1769	0.2392
previous induced abortion	1.0636	0.9886	1.1443	0.0373	1.6533	0.0982
previous spontaneous abortion	1.0419	0.9619	1.1287	0.0407	1.0082	0.3133
education level	1.0362	1.0016	1.0720	0.0173	2.0542	0.0399
parental income	0.9716	0.9373	1.0071	0.0182	-1.5732	0.1156
country	1.5065	1.3342	1.7011	0.0619	6.6140	<0.0001
region Sjælland	0.5995	0.5467	0.6575	0.0471	-10.8578	<0.0001
region Syddanmark	0.6471	0.5988	0.6993	0.0395	-10.9932	<0.0001
region Midtjylland	0.4922	0.4527	0.5352	0.0426	-16.6034	<0.0001
region Nordjylland	0.3523	0.3096	0.4009	0.0659	-15.8221	<0.0001
mother with disorder	1.9543	1.6053	2.3791	0.1003	6.6767	<0.0001
father with disorder	1.4122	1.0653	1.8720	0.1438	2.4003	0.0163

7. Skin - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3924	1.2939	1.4985	0.0374	8.8447
paternal age	0.9912	0.9796	1.0029	0.0059	-1.4631	0.1434
maternal age	0.9513	0.9385	0.9642	0.0069	-7.2204	<0.0001
gestation length	0.9959	0.9865	1.0054	0.0048	-0.8331	0.4047
maternal bleeding	1.0664	1.0318	1.1021	0.0167	3.8285	0.0001
fetal oxygen deprivation	0.8474	0.6903	1.0402	0.1045	-1.5822	0.1135
pregnancy oedema	1.1205	1.0428	1.2041	0.0366	3.1024	0.0019
apgar5 score	1.0923	1.0541	1.1319	0.0181	4.8674	<0.0001
birth weight	1.0216	1.0125	1.0307	0.0045	4.6988	<0.0001
preexisting hypertension	1.0325	0.8230	1.2953	0.1157	0.2767	0.7819
preexisting diabetes	1.1552	1.0013	1.3328	0.0729	1.9787	0.0478
previous induced abortion	1.0887	1.0650	1.1130	0.0112	7.5617	<0.0001
previous spontaneous abortion	1.0473	1.0223	1.0729	0.0123	3.7505	0.0001
education level	0.9642	0.9544	0.9741	0.0052	-6.9593	<0.0001
parental income	0.9686	0.9580	0.9792	0.0055	-5.7084	<0.0001
country	1.3015	1.2506	1.3546	0.0203	12.9285	<0.0001
region Sjælland	0.7931	0.7709	0.8159	0.0144	-16.0040	<0.0001
region Syddanmark	0.8648	0.8442	0.8860	0.0123	-11.7786	<0.0001
region Midtjylland	0.8520	0.8319	0.8727	0.0122	-13.0988	<0.0001
region Nordjylland	0.5931	0.5727	0.6143	0.0179	-29.1776	<0.0001
mother with disorder	1.3334	1.3002	1.3674	0.0128	22.3863	<0.0001
father with disorder	1.2956	1.2626	1.3296	0.0131	19.6305	<0.0001

8. Autoimmune - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1522	1.0218	1.2993	0.0612	2.3122
paternal age	0.9820	0.9646	0.9997	0.0091	-1.9900	0.0465
maternal age	0.9716	0.9520	0.9916	0.0104	-2.7653	0.0056
gestation length	0.9930	0.9791	1.0071	0.0072	-0.9706	0.3317
maternal bleeding	1.0831	1.0313	1.1376	0.0250	3.1916	0.0014
fetal oxygen deprivation	1.0618	0.7993	1.4106	0.1448	0.4144	0.6785
pregnancy oedema	1.2177	1.0967	1.3520	0.0533	3.6904	0.0002
apgar5 score	0.9849	0.9319	1.0409	0.0282	-0.5370	0.5912
birth weight	0.9945	0.9814	1.0078	0.0067	-0.8083	0.4188
preexisting hypertension	1.0167	0.7328	1.4106	0.1670	0.0994	0.9207
preexisting diabetes	1.5193	1.2801	1.8031	0.0873	4.7866	<0.0001
previous induced abortion	0.9745	0.9419	1.0082	0.0173	-1.4853	0.1374
previous spontaneous abortion	1.0515	1.0146	1.0898	0.0182	2.7557	0.0058
education level	0.9912	0.9760	1.0066	0.0078	-1.1132	0.2655
parental income	1.0111	0.9946	1.0279	0.0083	1.3186	0.1872
country	0.8997	0.8386	0.9651	0.0358	-2.9485	0.0031
region Sjælland	0.9677	0.9285	1.0085	0.0211	-1.5543	0.1201
region Syddanmark	0.9810	0.9460	1.0173	0.0185	-1.0317	0.3021
region Midtjylland	0.9185	0.8855	0.9527	0.0186	-4.5572	<0.0001
region Nordjylland	0.7750	0.7377	0.8142	0.0251	-10.1141	<0.0001
mother with disorder	1.5399	1.4781	1.6043	0.0208	20.6582	<0.0001
father with disorder	1.4445	1.3836	1.5081	0.0219	16.7272	<0.0001

9. Respiratory - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4400	0.7488	2.7688	0.3335	1.0931
paternal age	0.9997	0.9879	1.0117	0.0060	-0.0369	0.9705
maternal age	0.9594	0.9463	0.9727	0.0070	-5.9061	<0.0001
gestation length	0.9853	0.9759	0.9949	0.0049	-2.9920	0.0027
maternal bleeding	1.0835	1.0475	1.1207	0.0172	4.6531	<0.0001
fetal oxygen deprivation	0.9174	0.7402	1.1369	0.1094	-0.7875	0.4309
pregnancy oedema	1.1043	1.0234	1.1917	0.0388	2.5568	0.0105
apgar5 score	1.0526	1.0145	1.0922	0.0188	2.7254	0.0064
birth weight	1.0013	0.9923	1.0104	0.0046	0.2992	0.7647
preexisting hypertension	1.1665	0.9426	1.4436	0.1087	1.4171	0.1564
preexisting diabetes	1.0098	0.8614	1.1838	0.0811	0.1208	0.9038
previous induced abortion	1.0563	1.0328	1.0804	0.0114	4.7721	<0.0001
previous spontaneous abortion	1.0332	1.0082	1.0587	0.0124	2.6181	0.0088
education level	1.0009	0.9906	1.0113	0.0052	0.1779	0.8587
parental income	0.9741	0.9633	0.9850	0.0056	-4.6215	<0.0001
country	1.2269	1.1770	1.2790	0.0211	9.6535	<0.0001
region Sjælland	0.8113	0.7885	0.8348	0.0145	-14.3802	<0.0001
region Syddanmark	0.8773	0.8563	0.8989	0.0123	-10.5596	<0.0001
region Midtjylland	0.7366	0.7185	0.7552	0.0127	-24.0311	<0.0001
region Nordjylland	0.7293	0.7061	0.7533	0.0165	-19.1266	<0.0001
mother with disorder	1.3296	1.3012	1.3586	0.0110	25.8778	<0.0001
father with disorder	1.2409	1.2142	1.2683	0.0111	19.4347	<0.0001

10. Respiratory - upper	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	2.7275	1.5479	4.8062	0.2890	3.4715
paternal age	1.0015	0.9868	1.0165	0.0075	0.2086	0.8347
maternal age	0.9667	0.9503	0.9833	0.0086	-3.8974	<0.0001
gestation length	0.9926	0.9809	1.0045	0.0060	-1.2117	0.2256
maternal bleeding	1.0770	1.0332	1.1226	0.0211	3.5040	0.0004
fetal oxygen deprivation	0.8364	0.6316	1.1075	0.1432	-1.2466	0.2125
pregnancy oedema	1.1379	1.0373	1.2483	0.0472	2.7367	0.0062
apgar5 score	1.0880	1.0405	1.1376	0.0227	3.7046	0.0002
birth weight	1.0024	0.9913	1.0137	0.0056	0.4313	0.6662
preexisting hypertension	1.1326	0.8669	1.4797	0.1363	0.9131	0.3611
preexisting diabetes	0.9443	0.7705	1.1572	0.1037	-0.5522	0.5807
previous induced abortion	1.0955	1.0657	1.1260	0.0140	6.4950	<0.0001
previous spontaneous abortion	1.0321	1.0014	1.0637	0.0153	2.0553	0.0398
education level	1.0128	0.9999	1.0258	0.0065	1.9505	0.0511
parental income	0.9899	0.9764	1.0035	0.0070	-1.4477	0.1476
country	1.4076	1.3397	1.4788	0.0252	13.5635	<0.0001
region Sjælland	0.8285	0.7998	0.8582	0.0179	-10.4782	<0.0001
region Syddanmark	0.9349	0.9076	0.9631	0.0151	-4.4418	<0.0001
region Midtjylland	0.7404	0.7177	0.7638	0.0158	-18.9470	<0.0001
region Nordjylland	0.7012	0.6730	0.7306	0.0209	-16.9242	<0.0001
mother with disorder	1.3801	1.3365	1.4251	0.0163	19.6833	<0.0001
father with disorder	1.2905	1.2480	1.3345	0.0170	14.9346	<0.0001

11. Respiratory - lower	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2455	1.0126	1.5321	0.1056	2.0790
paternal age	1.0082	0.9776	1.0397	0.0157	0.5222	0.6014
maternal age	0.9128	0.8807	0.9459	0.0182	-5.0081	<0.0001
gestation length	0.9405	0.9170	0.9645	0.0128	-4.7639	<0.0001
maternal bleeding	1.1599	1.0662	1.2618	0.0429	3.4536	0.0005
fetal oxygen deprivation	0.8676	0.4919	1.5305	0.2895	-0.4900	0.6240
pregnancy oedema	1.1776	0.9752	1.4220	0.0962	1.6992	0.0892
apgar5 score	1.1187	1.0193	1.2278	0.0474	2.3625	0.0181
birth weight	0.9817	0.9586	1.0053	0.0121	-1.5233	0.1276
preexisting hypertension	1.2347	0.7157	2.1302	0.2782	0.7578	0.4485
preexisting diabetes	1.4446	1.0285	2.0290	0.1733	2.1225	0.0337
previous induced abortion	1.0027	0.9444	1.0646	0.0305	0.0904	0.9279
previous spontaneous abortion	1.1349	1.0658	1.2084	0.0320	3.9511	<0.0001
education level	0.9658	0.9399	0.9924	0.0138	-2.5042	0.0122
parental income	0.9275	0.9010	0.9549	0.0148	-5.0755	<0.0001
country	1.0940	0.9836	1.2168	0.0542	1.6558	0.0977
region Sjælland	0.7779	0.7235	0.8365	0.0370	-6.7823	<0.0001
region Syddanmark	0.7157	0.6710	0.7633	0.0328	-10.1723	<0.0001
region Midtjylland	0.6392	0.5985	0.6827	0.0335	-13.3337	<0.0001
region Nordjylland	0.6467	0.5938	0.7043	0.0435	-10.0182	<0.0001
mother with disorder	1.5768	1.4343	1.7334	0.0483	9.4255	<0.0001
father with disorder	1.3687	1.2471	1.5022	0.0474	6.6124	<0.0001

12. Respiratory - chronic lower	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3922	1.2469	1.5543	0.0562	5.8865
paternal age	0.9996	0.9821	1.0174	0.0089	-0.0401	0.9679
maternal age	0.9735	0.9539	0.9935	0.0103	-2.5811	0.0098
gestation length	0.9689	0.9553	0.9826	0.0071	-4.3906	<0.0001
maternal bleeding	1.1222	1.0693	1.1776	0.0246	4.6867	<0.0001
fetal oxygen deprivation	0.9788	0.7053	1.3584	0.1671	-0.1276	0.8983
pregnancy oedema	1.1210	0.9985	1.2586	0.0590	1.9357	0.0528
apgar5 score	1.0757	1.0207	1.1337	0.0267	2.7253	0.0064
birth weight	0.9788	0.9657	0.9920	0.0068	-3.1255	0.0017
preexisting hypertension	0.8536	0.5964	1.2217	0.1828	-0.8650	0.3869
preexisting diabetes	0.9364	0.7385	1.1874	0.1211	-0.5417	0.5879
previous induced abortion	1.0199	0.9863	1.0547	0.0171	1.1548	0.2481
previous spontaneous abortion	1.0553	1.0178	1.0941	0.0184	2.9219	0.0034
education level	1.0239	1.0080	1.0401	0.0079	2.9670	0.0030
parental income	0.9440	0.9283	0.9599	0.0085	-6.7432	<0.0001
country	0.9591	0.8990	1.0232	0.0330	-1.2630	0.2065
region Sjælland	0.8108	0.7768	0.8463	0.0218	-9.5984	<0.0001
region Syddanmark	0.9658	0.9318	1.0010	0.0182	-1.8999	0.0574
region Midtjylland	0.7513	0.7235	0.7803	0.0192	-14.8149	<0.0001
region Nordjylland	0.8606	0.8215	0.9017	0.0237	-6.3126	<0.0001
mother with disorder	1.9910	1.9002	2.0862	0.0238	28.9090	<0.0001
father with disorder	1.7675	1.6773	1.8626	0.0267	21.3127	<0.0001

13. Respiratory - asthma	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4159	1.2684	1.5806	0.0561	6.1961
paternal age	1.0091	0.9914	1.0272	0.0090	1.0115	0.3117
maternal age	0.9742	0.9545	0.9944	0.0104	-2.4931	0.0126
gestation length	0.9642	0.9506	0.9779	0.0072	-5.0431	<0.0001
maternal bleeding	1.1287	1.0754	1.1846	0.0246	4.9112	<0.0001
fetal oxygen deprivation	1.0129	0.7331	1.3994	0.1649	0.0778	0.9379
pregnancy oedema	1.1048	0.9823	1.2425	0.0599	1.6630	0.0962
apgar5 score	1.0762	1.0210	1.1345	0.0268	2.7351	0.0062
birth weight	0.9769	0.9638	0.9902	0.0068	-3.3816	0.0007
preexisting hypertension	0.8542	0.5968	1.2224	0.1829	-0.8615	0.3889
preexisting diabetes	0.9425	0.7433	1.1951	0.1211	-0.4884	0.6252
previous induced abortion	1.0221	0.9883	1.0572	0.0171	1.2765	0.2017
previous spontaneous abortion	1.0589	1.0211	1.0980	0.0185	3.0920	0.0019
education level	1.0164	1.0005	1.0325	0.0080	2.0324	0.0421
parental income	0.9381	0.9225	0.9541	0.0085	-7.4342	<0.0001
country	0.9375	0.8784	1.0007	0.0332	-1.9368	0.0527
region Sjælland	0.8117	0.7775	0.8475	0.0219	-9.4899	<0.0001
region Syddanmark	0.9631	0.9291	0.9985	0.0183	-2.0394	0.0414
region Midtjylland	0.7556	0.7274	0.7848	0.0193	-14.4720	<0.0001
region Nordjylland	0.8586	0.8193	0.8998	0.0239	-6.3746	<0.0001
mother with disorder	2.1970	2.0877	2.3121	0.0260	30.2113	<0.0001
father with disorder	2.0534	1.9294	2.1855	0.0317	22.6292	<0.0001

14. Respiratory - influenza	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4366	1.0660	1.9360	0.1522	2.3802
paternal age	1.0216	0.9735	1.0721	0.0246	0.8708	0.3838
maternal age	0.9097	0.8600	0.9622	0.0286	-3.3020	0.0009
gestation length	0.9182	0.8820	0.9559	0.0205	-4.1529	<0.0001
maternal bleeding	1.0935	0.9541	1.2532	0.0695	1.2848	0.1988
fetal oxygen deprivation	1.9670	1.0192	3.7961	0.3354	2.0167	0.0437
pregnancy oedema	1.4519	1.0923	1.9299	0.1452	2.5680	0.0102
apgar5 score	1.1007	0.9486	1.2772	0.0758	1.2654	0.2057
birth weight	0.9723	0.9358	1.0102	0.0194	-1.4389	0.1501
preexisting hypertension	2.8766	1.6261	5.0890	0.2910	3.6304	0.0002
preexisting diabetes	1.2246	0.6916	2.1681	0.2914	0.6952	0.4868
previous induced abortion	1.0072	0.9154	1.1081	0.0487	0.1473	0.8828
previous spontaneous abortion	1.0814	0.9765	1.1976	0.0520	1.5039	0.1326
education level	0.9496	0.9099	0.9911	0.0218	-2.3665	0.0179
parental income	0.8955	0.8551	0.9379	0.0235	-4.6772	<0.0001
country	1.9006	1.6636	2.1714	0.0679	9.4508	<0.0001
region Sjælland	0.7051	0.6293	0.7900	0.0580	-6.0235	<0.0001
region Syddanmark	0.5638	0.5074	0.6265	0.0537	-10.6520	<0.0001
region Midtjylland	0.5167	0.4640	0.5754	0.0548	-12.0318	<0.0001
region Nordjylland	0.4883	0.4213	0.5659	0.0752	-9.5242	<0.0001
mother with disorder	2.4573	1.8937	3.1886	0.1329	6.7638	<0.0001
father with disorder	1.7400	1.2126	2.4969	0.1842	3.0064	0.0026

15. Respiratory - pneumonia	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2847	1.0395	1.5878	0.1080	2.3184
paternal age	1.0061	0.9741	1.0391	0.0164	0.3700	0.7113
maternal age	0.9160	0.8824	0.9509	0.0190	-4.5956	<0.0001
gestation length	0.9419	0.9174	0.9670	0.0134	-4.4541	<0.0001
maternal bleeding	1.2001	1.1004	1.3089	0.0442	4.1241	<0.0001
fetal oxygen deprivation	0.8013	0.4304	1.4920	0.3171	-0.6981	0.4850
pregnancy oedema	1.1802	0.9685	1.4383	0.1008	1.6428	0.1004
apgar5 score	1.1350	1.0308	1.2498	0.0491	2.5777	0.0099
birth weight	0.9923	0.9679	1.0173	0.0126	-0.6071	0.5437
preexisting hypertension	1.3648	0.7910	2.3550	0.2783	1.1176	0.2637
preexisting diabetes	1.4049	0.9843	2.0052	0.1815	1.8729	0.0610
previous induced abortion	0.9962	0.9356	1.0607	0.0319	-0.1181	0.9059
previous spontaneous abortion	1.1315	1.0595	1.2084	0.0335	3.6849	0.0002
education level	0.9619	0.9349	0.9897	0.0145	-2.6652	0.0076
parental income	0.9382	0.9101	0.9672	0.0155	-4.1069	<0.0001
country	1.0972	0.9820	1.2260	0.0566	1.6398	0.1010
region Sjælland	0.7543	0.6990	0.8140	0.0388	-7.2569	<0.0001
region Syddanmark	0.7193	0.6727	0.7691	0.0341	-9.6461	<0.0001
region Midtjylland	0.6261	0.5844	0.6708	0.0351	-13.3046	<0.0001
region Nordjylland	0.6020	0.5495	0.6595	0.0465	-10.8978	<0.0001
mother with disorder	1.5816	1.4253	1.7551	0.0531	8.6340	<0.0001
father with disorder	1.3513	1.2208	1.4957	0.0518	5.8118	<0.0001

16. Respiratory - COPD	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2914	0.6683	2.4954	0.3360	0.7609
paternal age	0.9553	0.8652	1.0547	0.0505	-0.9044	0.3657
maternal age	0.9423	0.8410	1.0558	0.0580	-1.0236	0.3059
gestation length	1.0288	0.9478	1.1166	0.0418	0.6792	0.4969
maternal bleeding	1.2019	0.9185	1.5726	0.1371	1.3408	0.1799
fetal oxygen deprivation	0.6765	0.0947	4.8284	1.0027	-0.3897	0.6967
pregnancy oedema	1.6775	1.0459	2.6904	0.2410	2.1463	0.0318
apgar5 score	1.2120	0.8993	1.6333	0.1522	1.2633	0.2064
birth weight	0.8631	0.7991	0.9323	0.0393	-3.7430	0.0001
preexisting hypertension	0.0000	0.0000	Inf	715.4281	-0.0182	0.9854
preexisting diabetes	1.1341	0.2813	4.5713	0.7112	0.1769	0.8595
previous induced abortion	1.1440	0.9484	1.3800	0.0956	1.4070	0.1594
previous spontaneous abortion	1.0416	0.8447	1.2843	0.1068	0.3815	0.7027
education level	1.0035	0.9190	1.0959	0.0449	0.0795	0.9365
parental income	0.8012	0.7301	0.8792	0.0473	-4.6756	<0.0001
country	1.1277	0.8026	1.5846	0.1735	0.6928	0.4884
region Sjælland	0.8439	0.6709	1.0615	0.1170	-1.4494	0.1472
region Syddanmark	0.7189	0.5830	0.8864	0.1068	-3.0871	0.0020
region Midtjylland	0.5843	0.4675	0.7303	0.1137	-4.7227	<0.0001
region Nordjylland	0.7244	0.5536	0.9480	0.1372	-2.3490	0.0188
mother with disorder	1.9004	1.3296	2.7163	0.1822	3.5232	0.0004
father with disorder	1.7672	1.2534	2.4917	0.1752	3.2487	0.0011

17. Digestive - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1695	1.0861	1.2592	0.0377	4.1504
paternal age	0.9836	0.9729	0.9944	0.0055	-2.9569	0.0031
maternal age	0.9146	0.9031	0.9262	0.0064	-13.8939	<0.0001
gestation length	0.9811	0.9725	0.9897	0.0044	-4.2553	<0.0001
maternal bleeding	1.0617	1.0298	1.0946	0.0155	3.8483	0.0001
fetal oxygen deprivation	1.0670	0.8996	1.2655	0.0870	0.7457	0.4558
pregnancy oedema	1.1270	1.0567	1.2020	0.0328	3.6386	0.0002
apgar5 score	1.0604	1.0256	1.0963	0.0170	3.4448	0.0005
birth weight	0.9804	0.9724	0.9885	0.0041	-4.7078	<0.0001
preexisting hypertension	1.0017	0.8085	1.2411	0.1093	0.0159	0.9872
preexisting diabetes	1.1318	0.9854	1.2999	0.0706	1.7524	0.0796
previous induced abortion	1.0362	1.0150	1.0579	0.0105	3.3693	0.0007
previous spontaneous abortion	1.0498	1.0267	1.0734	0.0113	4.2864	<0.0001
education level	0.9593	0.9502	0.9684	0.0048	-8.5621	<0.0001
parental income	0.9852	0.9752	0.9952	0.0051	-2.8741	0.0040
country	0.8471	0.8112	0.8847	0.0221	-7.4960	<0.0001
region Sjælland	0.9638	0.9391	0.9891	0.0132	-2.7818	0.0054
region Syddanmark	1.0317	1.0087	1.0551	0.0114	2.7237	0.0064
region Midtjylland	0.8742	0.8542	0.8947	0.0118	-11.3621	<0.0001
region Nordjylland	0.9170	0.8909	0.9438	0.0147	-5.8822	<0.0001
mother with disorder	1.3003	1.2775	1.3235	0.0090	29.0573	<0.0001
father with disorder	1.1832	1.1625	1.2044	0.0090	18.6474	<0.0001

18. Endocrine - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3109	1.1775	1.4594	0.0547	4.9445
paternal age	0.9506	0.9354	0.9660	0.0082	-6.1565	<0.0001
maternal age	0.8678	0.8518	0.8842	0.0095	-14.8606	<0.0001
gestation length	0.9858	0.9728	0.9990	0.0067	-2.0925	0.0363
maternal bleeding	1.0583	1.0101	1.1089	0.0238	2.3841	0.0171
fetal oxygen deprivation	1.1836	0.9271	1.5110	0.1246	1.3528	0.1760
pregnancy oedema	1.2449	1.1438	1.3549	0.0432	5.0713	<0.0001
apgar5 score	1.1617	1.1055	1.2206	0.0252	5.9314	<0.0001
birth weight	1.0355	1.0227	1.0484	0.0063	5.5061	<0.0001
preexisting hypertension	1.0762	0.7946	1.4576	0.1547	0.4747	0.6349
preexisting diabetes	1.5062	1.2786	1.7743	0.0835	4.9005	<0.0001
previous induced abortion	1.0243	0.9923	1.0573	0.0161	1.4831	0.1380
previous spontaneous abortion	1.0555	1.0203	1.0919	0.0173	3.1207	0.0018
education level	0.8463	0.8344	0.8585	0.0072	-22.9296	<0.0001
parental income	0.8855	0.8720	0.8992	0.0078	-15.5256	<0.0001
country	0.8490	0.7998	0.9011	0.0304	-5.3800	<0.0001
region Sjælland	1.2465	1.2004	1.2943	0.0192	11.4728	<0.0001
region Syddanmark	1.1640	1.1250	1.2043	0.0173	8.7420	<0.0001
region Midtjylland	0.8216	0.7918	0.8525	0.0188	-10.4284	<0.0001
region Nordjylland	0.8624	0.8237	0.9030	0.0234	-6.3035	<0.0001
mother with disorder	1.6553	1.6079	1.7042	0.0148	33.9806	<0.0001
father with disorder	1.5066	1.4560	1.5590	0.0174	23.5112	<0.0001

19. Endocrine - obesity	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4035	1.2319	1.5991	0.0665	5.0951
paternal age	0.9270	0.9086	0.9458	0.0102	-7.4072	<0.0001
maternal age	0.8194	0.8004	0.8390	0.0120	-16.5699	<0.0001
gestation length	1.0024	0.9858	1.0194	0.0085	0.2923	0.7700
maternal bleeding	1.0644	1.0037	1.1288	0.0299	2.0841	0.0371
fetal oxygen deprivation	1.2060	0.8899	1.6342	0.1550	1.2082	0.2269
pregnancy oedema	1.2866	1.1650	1.4208	0.0506	4.9785	<0.0001
apgar5 score	1.1963	1.1250	1.2722	0.0313	5.7189	<0.0001
birth weight	1.0746	1.0579	1.0915	0.0079	9.0279	<0.0001
preexisting hypertension	1.1458	0.7950	1.6514	0.1864	0.7301	0.4653
preexisting diabetes	1.6444	1.3380	2.0208	0.1051	4.7290	<0.0001
previous induced abortion	1.0238	0.9836	1.0657	0.0204	1.1539	0.2485
previous spontaneous abortion	1.0756	1.0303	1.1229	0.0219	3.3230	0.0008
education level	0.7634	0.7497	0.7774	0.0092	-29.1082	<0.0001
parental income	0.8561	0.8396	0.8728	0.0099	-15.6876	<0.0001
country	0.6092	0.5615	0.6610	0.0416	-11.9058	<0.0001
region Sjælland	1.4771	1.4096	1.5479	0.0238	16.3335	<0.0001
region Syddanmark	1.2958	1.2408	1.3533	0.0221	11.7073	<0.0001
region Midtjylland	0.7949	0.7571	0.8346	0.0248	-9.2347	<0.0001
region Nordjylland	0.8510	0.8016	0.9035	0.0305	-5.2858	<0.0001
mother with disorder	2.3414	2.2320	2.4561	0.0244	34.8526	<0.0001
father with disorder	1.9915	1.8490	2.1450	0.0378	18.1910	<0.0001

20. Genitourinary - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2709	1.1337	1.4247	0.0582	4.1132
paternal age	0.9697	0.9533	0.9863	0.0086	-3.5479	0.0003
maternal age	0.8892	0.8718	0.9070	0.0101	-11.6181	<0.0001
gestation length	0.9799	0.9663	0.9936	0.0071	-2.8492	0.0043
maternal bleeding	1.1145	1.0631	1.1685	0.0241	4.4969	<0.0001
fetal oxygen deprivation	0.8451	0.6143	1.1625	0.1627	-1.0340	0.3010
pregnancy oedema	1.1302	1.0190	1.2536	0.0528	2.3175	0.0204
apgar5 score	1.0438	0.9888	1.1018	0.0275	1.5549	0.1199
birth weight	0.9574	0.9449	0.9701	0.0067	-6.4757	<0.0001
preexisting hypertension	1.1551	0.8466	1.5760	0.1585	0.9100	0.3627
preexisting diabetes	1.2174	0.9851	1.5046	0.1080	1.8214	0.0685
previous induced abortion	1.1254	1.0902	1.1618	0.0162	7.2793	<0.0001
previous spontaneous abortion	1.0422	1.0058	1.0799	0.0181	2.2808	0.0225
education level	0.9231	0.9093	0.9370	0.0076	-10.4461	<0.0001
parental income	0.9278	0.9131	0.9426	0.0081	-9.2417	<0.0001
country	0.8833	0.8307	0.9392	0.0313	-3.9592	<0.0001
region Sjælland	0.7105	0.6824	0.7397	0.0205	-16.6272	<0.0001
region Syddanmark	0.6690	0.6456	0.6931	0.0181	-22.1925	<0.0001
region Midtjylland	0.6222	0.6002	0.6451	0.0183	-25.8170	<0.0001
region Nordjylland	0.6236	0.5952	0.6535	0.0238	-19.8144	<0.0001
mother with disorder	1.3189	1.2766	1.3625	0.0166	16.6573	<0.0001
father with disorder	1.2736	1.2166	1.3332	0.0233	10.3625	<0.0001

21. Genitourinary - kidney infection	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.2889	0.9632	1.7245	0.1485	1.7081	0.0876
paternal age	0.9999	0.9577	1.0440	0.0220	-0.0006	0.9994
maternal age	0.8507	0.8087	0.8949	0.0258	-6.2576	<0.0001
gestation length	1.0171	0.9818	1.0536	0.0180	0.9419	0.3462
maternal bleeding	1.1192	0.9922	1.2624	0.0614	1.8329	0.0668
fetal oxygen deprivation	0.9303	0.4169	2.0760	0.4095	-0.1762	0.8601
pregnancy oedema	0.8642	0.6320	1.1817	0.1596	-0.9138	0.3608
apgar5 score	1.1312	0.9897	1.2930	0.0681	1.8086	0.0705
birth weight	0.9892	0.9568	1.0227	0.0169	-0.6345	0.5257
preexisting hypertension	0.5301	0.1707	1.6463	0.5780	-1.0975	0.2723
preexisting diabetes	1.4537	0.8995	2.3495	0.2449	1.5275	0.1266
previous induced abortion	1.1812	1.0914	1.2784	0.0403	4.1275	<0.0001
previous spontaneous abortion	1.1176	1.0237	1.2200	0.0447	2.4839	0.0129
education level	0.9277	0.8927	0.9640	0.0196	-3.8268	0.0001
parental income	0.9574	0.9193	0.9970	0.0207	-2.1015	0.0355
country	0.6379	0.5350	0.7606	0.0897	-5.0086	<0.0001
region Sjælland	0.6935	0.6261	0.7682	0.0521	-7.0134	<0.0001
region Syddanmark	0.6344	0.5792	0.6948	0.0464	-9.7977	<0.0001
region Midtjylland	0.6425	0.5872	0.7029	0.0458	-9.6443	<0.0001
region Nordjylland	0.6320	0.5623	0.7103	0.0595	-7.7004	<0.0001
mother with disorder	1.4632	1.1728	1.8256	0.1128	3.3724	0.0007
father with disorder	1.6448	1.0705	2.5272	0.2191	2.2711	0.0231

22. Musculoskeletal - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.2185	1.1547	1.2857	0.0274	7.2069	<0.0001
paternal age	0.9737	0.9658	0.9818	0.0041	-6.3389	<0.0001
maternal age	0.9359	0.9271	0.9448	0.0048	-13.7206	<0.0001
gestation length	1.0001	0.9936	1.0066	0.0033	0.0409	0.9673
maternal bleeding	1.0874	1.0631	1.1123	0.0115	7.2734	<0.0001
fetal oxygen deprivation	1.1597	1.0294	1.3065	0.0608	2.4375	0.0147
pregnancy oedema	1.0978	1.0429	1.1556	0.0261	3.5663	0.0003
apgar5 score	1.0158	0.9904	1.0420	0.0129	1.2170	0.2235
birth weight	0.9904	0.9843	0.9965	0.0031	-3.0694	0.0021
preexisting hypertension	1.0329	0.8856	1.2047	0.0784	0.4131	0.6795
preexisting diabetes	1.0178	0.9154	1.1317	0.0541	0.3275	0.7432
previous induced abortion	1.0467	1.0307	1.0629	0.0078	5.8128	<0.0001
previous spontaneous abortion	1.0317	1.0146	1.0491	0.0085	3.6718	0.0002
education level	0.9555	0.9487	0.9624	0.0036	-12.4498	<0.0001
parental income	0.9929	0.9853	1.0005	0.0039	-1.8176	0.0691
country	0.8543	0.8275	0.8819	0.0162	-9.7021	<0.0001
region Sjælland	0.8484	0.8315	0.8657	0.0102	-15.9992	<0.0001
region Syddanmark	0.8867	0.8716	0.9022	0.0088	-13.6500	<0.0001
region Midtjylland	1.0416	1.0246	1.0589	0.0084	4.8541	<0.0001
region Nordjylland	0.8347	0.8163	0.8536	0.0113	-15.8763	<0.0001
mother with disorder	1.3431	1.3268	1.3597	0.0062	47.3507	<0.0001
father with disorder	1.2313	1.2162	1.2466	0.0062	33.0863	<0.0001

23. Neoplasms - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2211	1.0966	1.3598	0.0548	3.6415
paternal age	0.9855	0.9697	1.0016	0.0082	-1.7577	0.0787
maternal age	0.9694	0.9516	0.9874	0.0094	-3.2962	0.0009
gestation length	0.9982	0.9855	1.0110	0.0065	-0.2716	0.7859
maternal bleeding	1.0751	1.0282	1.1240	0.0227	3.1877	0.0014
fetal oxygen deprivation	1.1286	0.8935	1.4256	0.1191	1.0154	0.3098
pregnancy oedema	0.9849	0.8908	1.0890	0.0512	-0.2953	0.7677
apgar5 score	0.9769	0.9287	1.0277	0.0258	-0.9003	0.3679
birth weight	1.0171	1.0049	1.0293	0.0061	2.7748	0.0055
preexisting hypertension	0.9508	0.6914	1.3074	0.1625	-0.3103	0.7562
preexisting diabetes	1.0287	0.8326	1.2709	0.1078	0.2623	0.7930
previous induced abortion	0.9953	0.9652	1.0262	0.0156	-0.3011	0.7632
previous spontaneous abortion	1.0262	0.9934	1.0601	0.0165	1.5623	0.1182
education level	1.0071	0.9932	1.0212	0.0070	1.0080	0.3134
parental income	1.0281	1.0130	1.0434	0.0075	3.6791	0.0002
country	0.9152	0.8554	0.9792	0.0344	-2.5675	0.0102
region Sjælland	1.1109	1.0693	1.1542	0.0194	5.4004	<0.0001
region Syddanmark	1.1857	1.1468	1.2259	0.0170	10.0164	<0.0001
region Midtjylland	1.1391	1.1018	1.1777	0.0169	7.6675	<0.0001
region Nordjylland	0.9369	0.8963	0.9793	0.0225	-2.8842	0.0039
mother with disorder	1.1890	1.1599	1.2188	0.0126	13.7133	<0.0001
father with disorder	1.1534	1.1158	1.1923	0.0169	8.4357	<0.0001

24. Neoplasms - benign	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2251	1.0916	1.3749	0.0588	3.4504
paternal age	0.9803	0.9633	0.9975	0.0089	-2.2307	0.0257
maternal age	0.9763	0.9571	0.9960	0.0101	-2.3535	0.0185
gestation length	0.9963	0.9827	1.0101	0.0070	-0.5236	0.6004
maternal bleeding	1.0647	1.0148	1.1171	0.0245	2.5610	0.0104
fetal oxygen deprivation	1.1699	0.9111	1.5022	0.1275	1.2306	0.2184
pregnancy oedema	0.9981	0.8950	1.1131	0.0556	-0.0331	0.9735
apgar5 score	0.9698	0.9183	1.0242	0.0278	-1.0993	0.2715
birth weight	1.0140	1.0010	1.0272	0.0065	2.1216	0.0338
preexisting hypertension	0.8833	0.6208	1.2567	0.1799	-0.6896	0.4903
preexisting diabetes	1.0415	0.8318	1.3040	0.1146	0.3548	0.7226
previous induced abortion	1.0013	0.9690	1.0348	0.0167	0.0814	0.9350
previous spontaneous abortion	1.0474	1.0117	1.0845	0.0177	2.6187	0.0088
education level	1.0126	0.9975	1.0279	0.0076	1.6439	0.1001
parental income	1.0253	1.0091	1.0418	0.0081	3.0778	0.0020
country	0.9220	0.8580	0.9907	0.0366	-2.2124	0.0269
region Sjælland	1.0985	1.0541	1.1448	0.0210	4.4670	<0.0001
region Syddanmark	1.1979	1.1557	1.2416	0.0182	9.8824	<0.0001
region Midtjylland	1.1487	1.1083	1.1905	0.0182	7.5940	<0.0001
region Nordjylland	0.8990	0.8566	0.9436	0.0246	-4.3137	<0.0001
mother with disorder	1.2202	1.1852	1.2562	0.0148	13.4010	<0.0001
father with disorder	1.1921	1.1412	1.2452	0.0222	7.9035	<0.0001

25. Circulatory - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1715	0.9997	1.3729	0.0809	1.9565
paternal age	0.9688	0.9459	0.9922	0.0121	-2.5997	0.0093
maternal age	0.9481	0.9227	0.9743	0.0138	-3.8377	0.0001
gestation length	0.9712	0.9530	0.9898	0.0096	-3.0116	0.0025
maternal bleeding	1.1373	1.0670	1.2122	0.0325	3.9549	<0.0001
fetal oxygen deprivation	0.8505	0.5782	1.2508	0.1968	-0.8226	0.4107
pregnancy oedema	1.0466	0.9091	1.2048	0.0718	0.6341	0.5259
apgar5 score	1.2291	1.1481	1.3158	0.0347	5.9292	<0.0001
birth weight	0.9757	0.9585	0.9932	0.0090	-2.7033	0.0068
preexisting hypertension	1.1880	0.8233	1.7141	0.1870	0.9209	0.3570
preexisting diabetes	0.9621	0.7068	1.3096	0.1573	-0.2454	0.8061
previous induced abortion	0.9862	0.9422	1.0323	0.0232	-0.5927	0.5533
previous spontaneous abortion	1.0432	0.9940	1.0949	0.0246	1.7173	0.0859
education level	0.9706	0.9508	0.9908	0.0105	-2.8323	0.0046
parental income	0.9825	0.9613	1.0042	0.0111	-1.5761	0.1149
country	0.8854	0.8052	0.9735	0.0484	-2.5134	0.0119
region Sjælland	0.9937	0.9405	1.0500	0.0280	-0.2215	0.8246
region Syddanmark	0.9101	0.8661	0.9564	0.0253	-3.7177	0.0002
region Midtjylland	0.9468	0.9018	0.9941	0.0248	-2.1940	0.0282
region Nordjylland	0.7628	0.7138	0.8151	0.0338	-8.0004	<0.0001
mother with disorder	1.4985	1.4338	1.5661	0.0225	17.9650	<0.0001
father with disorder	1.3353	1.2811	1.3917	0.0211	13.6985	<0.0001

26. Nervous System - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.5085	1.2620	1.8031	0.0910	4.5166
paternal age	0.9776	0.9490	1.0070	0.0151	-1.4953	0.1348
maternal age	0.8889	0.8588	0.9199	0.0175	-6.7135	<0.0001
gestation length	0.9955	0.9718	1.0198	0.0122	-0.3622	0.7171
maternal bleeding	1.1232	1.0352	1.2187	0.0416	2.7909	0.0052
fetal oxygen deprivation	1.5467	1.0724	2.2309	0.1868	2.3341	0.0195
pregnancy oedema	1.2077	1.0301	1.4159	0.0811	2.3256	0.0200
apgar5 score	1.0712	0.9767	1.1750	0.0471	1.4605	0.1441
birth weight	0.9770	0.9553	0.9992	0.0114	-2.0268	0.0426
preexisting hypertension	1.1102	0.6296	1.9575	0.2893	0.3614	0.7177
preexisting diabetes	1.4977	1.0718	2.0927	0.1706	2.3665	0.0179
previous induced abortion	1.0604	1.0018	1.1224	0.0289	2.0252	0.0428
previous spontaneous abortion	1.0826	1.0191	1.1501	0.0308	2.5730	0.0100
education level	0.9062	0.8830	0.9301	0.0132	-7.4335	<0.0001
parental income	0.9368	0.9112	0.9631	0.0141	-4.6145	<0.0001
country	0.7051	0.6197	0.8023	0.0658	-5.3038	<0.0001
region Sjælland	1.4341	1.3411	1.5336	0.0342	10.5360	<0.0001
region Syddanmark	1.1590	1.0880	1.2345	0.0322	4.5797	<0.0001
region Midtjylland	0.9868	0.9245	1.0534	0.0333	-0.3968	0.6914
region Nordjylland	0.7523	0.6877	0.8229	0.0457	-6.2153	<0.0001
mother with disorder	1.5647	1.4591	1.6780	0.0356	12.5576	<0.0001
father with disorder	1.4133	1.2973	1.5397	0.0437	7.9168	<0.0001

27. Eye/adnexa - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2531	1.1274	1.3928	0.0539	4.1857
paternal age	1.0033	0.9880	1.0189	0.0078	0.4281	0.6685
maternal age	0.9744	0.9574	0.9917	0.0089	-2.8761	0.0040
gestation length	0.9570	0.9452	0.9690	0.0063	-6.9171	<0.0001
maternal bleeding	1.0874	1.0419	1.1348	0.0218	3.8421	0.0001
fetal oxygen deprivation	1.1464	0.8947	1.4690	0.1265	1.0804	0.2799
pregnancy oedema	1.0639	0.9643	1.1737	0.0501	1.2363	0.2163
apgar5 score	1.0673	1.0184	1.1185	0.0239	2.7253	0.0064
birth weight	0.9581	0.9470	0.9694	0.0059	-7.1573	<0.0001
preexisting hypertension	1.0024	0.7455	1.3478	0.1510	0.0159	0.9872
preexisting diabetes	1.0952	0.9007	1.3318	0.0997	0.9122	0.3616
previous induced abortion	1.0290	0.9993	1.0596	0.0149	1.9192	0.0549
previous spontaneous abortion	1.0694	1.0364	1.1034	0.0159	4.2025	<0.0001
education level	0.9591	0.9463	0.9720	0.0068	-6.1012	<0.0001
parental income	0.9569	0.9433	0.9706	0.0072	-6.0417	<0.0001
country	1.0354	0.9806	1.0934	0.0277	1.2548	0.2095
region Sjælland	0.7687	0.7415	0.7969	0.0183	-14.3111	<0.0001
region Syddanmark	0.7515	0.7283	0.7755	0.0160	-17.8031	<0.0001
region Midtjylland	0.6381	0.6176	0.6592	0.0166	-26.9935	<0.0001
region Nordjylland	0.6704	0.6429	0.6991	0.0213	-18.6939	<0.0001
mother with disorder	1.3262	1.2781	1.3761	0.0188	14.9739	<0.0001
father with disorder	1.2401	1.1941	1.2880	0.0193	11.1484	<0.0001

28. Mental - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2229	1.1295	1.3239	0.0405	4.9665
paternal age	1.0143	1.0026	1.0261	0.0059	2.4050	0.0161
maternal age	0.9173	0.9050	0.9299	0.0069	-12.4658	<0.0001
gestation length	0.9821	0.9726	0.9917	0.0049	-3.6345	0.0002
maternal bleeding	1.1313	1.0953	1.1684	0.0164	7.4817	<0.0001
fetal oxygen deprivation	1.2019	0.9971	1.4489	0.0953	1.9300	0.0535
pregnancy oedema	1.0852	1.0062	1.1705	0.0385	2.1203	0.0339
apgar5 score	1.0591	1.0206	1.0990	0.0188	3.0447	0.0023
birth weight	0.9710	0.9621	0.9799	0.0046	-6.2740	<0.0001
preexisting hypertension	1.1793	0.9504	1.4633	0.1101	1.4980	0.1341
preexisting diabetes	1.1352	0.9809	1.3138	0.0745	1.7015	0.0888
previous induced abortion	1.1292	1.1047	1.1543	0.0112	10.8523	<0.0001
previous spontaneous abortion	1.0692	1.0432	1.0958	0.0125	5.3334	<0.0001
education level	0.9600	0.9497	0.9703	0.0054	-7.4523	<0.0001
parental income	0.7864	0.7774	0.7955	0.0058	-40.8631	<0.0001
country	0.4841	0.4590	0.5105	0.0271	-26.7619	<0.0001
region Sjælland	0.8414	0.8177	0.8657	0.0145	-11.8655	<0.0001
region Syddanmark	0.9152	0.8933	0.9377	0.0123	-7.1517	<0.0001
region Midtjylland	0.7653	0.7460	0.7851	0.0130	-20.5091	<0.0001
region Nordjylland	0.5591	0.5389	0.5801	0.0187	-30.9937	<0.0001
mother with disorder	2.0420	1.9934	2.0917	0.0122	58.0955	<0.0001
father with disorder	1.6294	1.5836	1.6765	0.0145	33.5810	<0.0001

Table S6 - Full Cox regression outputs - impact of adenoidectomy on risk of later disease.

1. Infectious/parasitic - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.2751	1.1931	1.3627	0.0339	7.1651	<0.0001
paternal age	0.9933	0.9796	1.0072	0.0070	-0.9405	0.3469
maternal age	0.9731	0.9578	0.9887	0.0081	-3.3560	0.0007
gestation length	0.9878	0.9768	0.9989	0.0057	-2.1485	0.0316
maternal bleeding	1.1079	1.0661	1.1513	0.0196	5.2296	<0.0001
fetal oxygen deprivation	0.8918	0.6948	1.1448	0.1273	-0.8980	0.3691
pregnancy oedema	1.0579	0.9673	1.1570	0.0456	1.2333	0.2174
apgar5 score	1.0433	0.9994	1.0892	0.0219	1.9343	0.0530
birth weight	0.9913	0.9810	1.0018	0.0053	-1.6162	0.1060
preexisting hypertension	1.0357	0.7966	1.3465	0.1338	0.2625	0.7929
preexisting diabetes	1.0546	0.8814	1.2618	0.0915	0.5809	0.5612
previous induced abortion	1.0931	1.0654	1.1216	0.0131	6.7951	<0.0001
previous spontaneous abortion	1.0461	1.0171	1.0760	0.0143	3.1438	0.0016
education level	0.9923	0.9805	1.0043	0.0061	-1.2552	0.2093
parental income	0.9864	0.9739	0.9991	0.0065	-2.0943	0.0362
country	1.2691	1.2104	1.3306	0.0241	9.8712	<0.0001
region Sjælland	0.7845	0.7599	0.8099	0.0162	-14.9030	<0.0001
region Syddanmark	0.6846	0.6651	0.7046	0.0147	-25.7642	<0.0001
region Midtjylland	0.7020	0.6824	0.7223	0.0144	-24.4181	<0.0001
region Nordjylland	0.6156	0.5923	0.6399	0.0196	-24.6213	<0.0001
mother with disorder	1.3780	1.3346	1.4229	0.0163	19.6287	<0.0001
father with disorder	1.2447	1.2036	1.2873	0.0171	12.7714	<0.0001

2. Allergic - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.3799	1.2562	1.5159	0.0479	6.7173	<0.0001
paternal age	1.0061	0.9857	1.0269	0.0104	0.5832	0.5597
maternal age	1.0268	1.0032	1.0511	0.0118	2.2304	0.0257
gestation length	0.9972	0.9812	1.0134	0.0082	-0.3397	0.7340
maternal bleeding	1.1426	1.0816	1.2070	0.0279	4.7651	<0.0001
fetal oxygen deprivation	0.6034	0.3845	0.9468	0.2298	-2.1975	0.0279
pregnancy oedema	1.2391	1.0974	1.3990	0.0619	3.4611	0.0005
apgar5 score	1.0825	1.0193	1.1495	0.0306	2.5846	0.0097
birth weight	0.9780	0.9632	0.9931	0.0078	-2.8362	0.0045
preexisting hypertension	0.7289	0.4646	1.1435	0.2297	-1.3763	0.1687
preexisting diabetes	1.0399	0.7932	1.3634	0.1381	0.2834	0.7768
previous induced abortion	1.0402	1.0012	1.0808	0.0195	2.0242	0.0429
previous spontaneous abortion	1.0433	1.0012	1.0872	0.0210	2.0175	0.0436
education level	1.0654	1.0467	1.0844	0.0090	7.0149	<0.0001
parental income	1.0196	1.0006	1.0389	0.0095	2.0307	0.0422
country	1.3856	1.2911	1.4871	0.0360	9.0506	<0.0001
region Sjælland	0.7125	0.6772	0.7497	0.0259	-13.0736	<0.0001
region Syddanmark	1.0327	0.9923	1.0747	0.0203	1.5842	0.1131
region Midtjylland	0.7876	0.7550	0.8217	0.0216	-11.0424	<0.0001
region Nordjylland	0.7121	0.6726	0.7540	0.0291	-11.6537	<0.0001
mother with disorder	1.8645	1.7454	1.9918	0.0336	18.5010	<0.0001
father with disorder	1.7644	1.6250	1.9158	0.0420	13.5176	<0.0001

3. Allergic - rhinitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.6148	1.4252	1.8296	0.0637	7.5203
paternal age	1.0191	0.9898	1.0492	0.0148	1.2732	0.2029
maternal age	1.0643	1.0297	1.1001	0.0168	3.6957	0.0002
gestation length	0.9994	0.9771	1.0222	0.0115	-0.0517	0.9587
maternal bleeding	1.0643	0.9828	1.1526	0.0406	1.5342	0.1249
fetal oxygen deprivation	0.5550	0.2884	1.0680	0.3339	-1.7629	0.0779
pregnancy oedema	1.1629	0.9751	1.3870	0.0899	1.6795	0.0930
apgar5 score	1.0914	1.0044	1.1860	0.0423	2.0647	0.0389
birth weight	0.9888	0.9678	1.0103	0.0109	-1.0195	0.3079
preexisting hypertension	0.6024	0.3010	1.2056	0.3539	-1.4315	0.1522
preexisting diabetes	0.7667	0.4937	1.1908	0.2246	-1.1823	0.2370
previous induced abortion	1.0042	0.9505	1.0610	0.0280	0.1525	0.8787
previous spontaneous abortion	1.0328	0.9744	1.0947	0.0297	1.0883	0.2764
education level	1.1294	1.1012	1.1582	0.0128	9.4599	<0.0001
parental income	1.0258	0.9986	1.0538	0.0137	1.8620	0.0625
country	1.4185	1.2751	1.5780	0.0543	6.4295	<0.0001
region Sjælland	0.9071	0.8400	0.9795	0.0391	-2.4869	0.0128
region Syddanmark	1.7590	1.6605	1.8633	0.0293	19.2115	<0.0001
region Midtjylland	1.1154	1.0473	1.1879	0.0321	3.3992	0.0006
region Nordjylland	1.2836	1.1897	1.3849	0.0387	6.4435	<0.0001
mother with disorder	3.1455	2.8026	3.5304	0.0588	19.4586	<0.0001
father with disorder	2.8219	2.4535	3.2456	0.0713	14.5365	<0.0001

4. Allergic - conjunctivitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.7514	1.3518	2.2691	0.1321	4.2421
paternal age	1.0119	0.9514	1.0762	0.0314	0.3770	0.7061
maternal age	1.0713	0.9990	1.1489	0.0356	1.9319	0.0533
gestation length	1.0248	0.9770	1.0749	0.0243	1.0057	0.3145
maternal bleeding	1.2086	1.0295	1.4188	0.0818	2.3155	0.0205
fetal oxygen deprivation	0.0000	0.0000	Inf	370.1012	-0.0344	0.9724
pregnancy oedema	1.4792	1.0510	2.0818	0.1743	2.2457	0.0247
apgar5 score	1.0437	0.8738	1.2466	0.0906	0.4722	0.6367
birth weight	1.0132	0.9678	1.0606	0.0233	0.5616	0.5743
preexisting hypertension	0.3226	0.0453	2.2934	1.0006	-1.1304	0.2582
preexisting diabetes	1.2298	0.5832	2.5932	0.3806	0.5434	0.5868
previous induced abortion	1.1018	0.9837	1.2340	0.0578	1.6766	0.0936
previous spontaneous abortion	1.1712	1.0398	1.3192	0.0607	2.6032	0.0092
education level	1.0673	1.0116	1.1261	0.0273	2.3824	0.0171
parental income	1.0253	0.9680	1.0860	0.0293	0.8523	0.3940
country	1.5564	1.2648	1.9152	0.1058	4.1797	<0.0001
region Sjælland	0.6708	0.5653	0.7960	0.0873	-4.5727	<0.0001
region Syddanmark	1.8783	1.6752	2.1060	0.0583	10.7975	<0.0001
region Midtjylland	0.6978	0.6035	0.8067	0.0740	-4.8608	<0.0001
region Nordjylland	0.9588	0.8091	1.1361	0.0865	-0.4857	0.6271
mother with disorder	1.6499	0.7851	3.4676	0.3789	1.3215	0.1863
father with disorder	2.8925	1.3758	6.0812	0.3791	2.8014	0.0050

5. Allergic - eczema/dermatitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2997	1.0782	1.5666	0.0953	2.7505
paternal age	0.9893	0.9515	1.0287	0.0199	-0.5354	0.5923
maternal age	0.9966	0.9531	1.0422	0.0227	-0.1455	0.8842
gestation length	1.0211	0.9901	1.0531	0.0157	1.3314	0.1830
maternal bleeding	1.2056	1.0883	1.3356	0.0522	3.5796	0.0003
fetal oxygen deprivation	0.6818	0.3057	1.5204	0.4091	-0.9358	0.3493
pregnancy oedema	1.2988	1.0354	1.6291	0.1156	2.2610	0.0237
apgar5 score	1.0580	0.9411	1.1895	0.0597	0.9446	0.3448
birth weight	0.9816	0.9534	1.0107	0.0148	-1.2429	0.2138
preexisting hypertension	0.7051	0.2931	1.6961	0.4478	-0.7801	0.4353
preexisting diabetes	1.0918	0.6561	1.8166	0.2597	0.3381	0.7352
previous induced abortion	1.0789	1.0044	1.1590	0.0365	2.0816	0.0373
previous spontaneous abortion	1.0723	0.9920	1.1591	0.0397	1.7594	0.0785
education level	1.0411	1.0066	1.0768	0.0171	2.3460	0.0189
parental income	1.0582	1.0212	1.0966	0.0181	3.1159	0.0018
country	1.2608	1.0985	1.4471	0.0703	3.2970	0.0009
region Sjælland	0.6128	0.5559	0.6755	0.0497	-9.8518	<0.0001
region Syddanmark	0.9003	0.8352	0.9704	0.0382	-2.7429	0.0060
region Midtjylland	0.8009	0.7416	0.8648	0.0391	-5.6631	<0.0001
region Nordjylland	0.4031	0.3538	0.4594	0.0666	-13.6332	<0.0001
mother with disorder	2.4876	2.0684	2.9919	0.0941	9.6778	<0.0001
father with disorder	2.0043	1.5079	2.6641	0.1451	4.7886	<0.0001

6. Allergic - urticaria/angiodema	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2233	1.0186	1.4691	0.0934	2.1572
paternal age	1.0063	0.9680	1.0461	0.0197	0.3201	0.7488
maternal age	0.9894	0.9464	1.0344	0.0226	-0.4679	0.6398
gestation length	0.9903	0.9597	1.0218	0.0160	-0.6076	0.5434
maternal bleeding	1.2773	1.1548	1.4127	0.0514	4.7600	<0.0001
fetal oxygen deprivation	0.5341	0.2001	1.4256	0.5008	-1.2519	0.2106
pregnancy oedema	1.5592	1.2664	1.9197	0.1061	4.1854	<0.0001
apgar5 score	1.1153	0.9935	1.2520	0.0589	1.8507	0.0642
birth weight	0.9683	0.9400	0.9975	0.0151	-2.1207	0.0339
preexisting hypertension	0.7246	0.3011	1.7436	0.4480	-0.7189	0.4721
preexisting diabetes	1.3165	0.8266	2.0970	0.2374	1.1581	0.2468
previous induced abortion	1.0613	0.9869	1.1414	0.0370	1.6055	0.1083
previous spontaneous abortion	1.0461	0.9663	1.1325	0.0404	1.1153	0.2647
education level	1.0288	0.9947	1.0641	0.0172	1.6529	0.0983
parental income	0.9741	0.9400	1.0094	0.0181	-1.4421	0.1492
country	1.4941	1.3234	1.6868	0.0619	6.4866	<0.0001
region Sjælland	0.6060	0.5530	0.6640	0.0466	-10.7258	<0.0001
region Syddanmark	0.6497	0.6015	0.7018	0.0393	-10.9571	<0.0001
region Midtjylland	0.4924	0.4528	0.5354	0.0427	-16.5806	<0.0001
region Nordjylland	0.3630	0.3197	0.4121	0.0647	-15.6455	<0.0001
mother with disorder	1.9275	1.5848	2.3443	0.0998	6.5704	<0.0001
father with disorder	1.4300	1.0818	1.8903	0.1423	2.5128	0.0119

7. Skin - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2386	1.1730	1.3078	0.0277	7.7116
paternal age	0.9884	0.9769	1.0000	0.0059	-1.9541	0.0506
maternal age	0.9546	0.9418	0.9675	0.0068	-6.7703	<0.0001
gestation length	0.9965	0.9872	1.0059	0.0047	-0.7222	0.4701
maternal bleeding	1.0696	1.0353	1.1051	0.0166	4.0493	<0.0001
fetal oxygen deprivation	0.8429	0.6874	1.0336	0.1040	-1.6420	0.1005
pregnancy oedema	1.1263	1.0492	1.2090	0.0361	3.2901	0.0010
apgar5 score	1.0963	1.0584	1.1356	0.0179	5.1213	<0.0001
birth weight	1.0224	1.0134	1.0315	0.0045	4.9134	<0.0001
preexisting hypertension	1.0731	0.8603	1.3385	0.1127	0.6261	0.5311
preexisting diabetes	1.1615	1.0079	1.3386	0.0723	2.0690	0.0385
previous induced abortion	1.0888	1.0652	1.1129	0.0111	7.6198	<0.0001
previous spontaneous abortion	1.0468	1.0220	1.0722	0.0122	3.7382	0.0001
education level	0.9623	0.9526	0.9722	0.0051	-7.3767	<0.0001
parental income	0.9707	0.9602	0.9813	0.0055	-5.3601	<0.0001
country	1.2997	1.2489	1.3527	0.0203	12.8804	<0.0001
region Sjælland	0.7951	0.7730	0.8178	0.0143	-15.9584	<0.0001
region Syddanmark	0.8676	0.8470	0.8886	0.0122	-11.6087	<0.0001
region Midtjylland	0.8544	0.8342	0.8751	0.0121	-12.9038	<0.0001
region Nordjylland	0.5976	0.5772	0.6188	0.0177	-29.0272	<0.0001
mother with disorder	1.3345	1.3016	1.3683	0.0127	22.6340	<0.0001
father with disorder	1.2917	1.2589	1.3254	0.0131	19.5177	<0.0001

8. Autoimmune - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1928	1.0955	1.2987	0.0433	4.0637
paternal age	0.9839	0.9666	1.0015	0.0090	-1.7920	0.0731
maternal age	0.9715	0.9521	0.9914	0.0103	-2.7895	0.0052
gestation length	0.9934	0.9796	1.0074	0.0071	-0.9192	0.3579
maternal bleeding	1.0847	1.0333	1.1388	0.0248	3.2813	0.0010
fetal oxygen deprivation	1.0483	0.7891	1.3925	0.1448	0.3256	0.7446
pregnancy oedema	1.2107	1.0915	1.3429	0.0528	3.6166	0.0002
apgar5 score	0.9841	0.9316	1.0396	0.0279	-0.5697	0.5688
birth weight	0.9950	0.9819	1.0082	0.0067	-0.7438	0.4569
preexisting hypertension	1.0326	0.7476	1.4263	0.1647	0.1951	0.8452
preexisting diabetes	1.5553	1.3135	1.8415	0.0861	5.1250	<0.0001
previous induced abortion	0.9742	0.9419	1.0077	0.0172	-1.5116	0.1306
previous spontaneous abortion	1.0520	1.0153	1.0901	0.0181	2.8010	0.0050
education level	0.9911	0.9760	1.0064	0.0078	-1.1384	0.2549
parental income	1.0117	0.9953	1.0284	0.0083	1.3997	0.1615
country	0.8921	0.8315	0.9570	0.0358	-3.1834	0.0014
region Sjælland	0.9654	0.9266	1.0058	0.0209	-1.6790	0.0931
region Syddanmark	0.9770	0.9424	1.0129	0.0184	-1.2608	0.2073
region Midtjylland	0.9182	0.8854	0.9522	0.0185	-4.5920	<0.0001
region Nordjylland	0.7767	0.7396	0.8156	0.0249	-10.1193	<0.0001
mother with disorder	1.5299	1.4688	1.5935	0.0207	20.4572	<0.0001
father with disorder	1.4422	1.3817	1.5053	0.0218	16.7602	<0.0001

9. Respiratory - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4886	1.1309	1.9594	0.1402	2.8377
paternal age	0.9996	0.9877	1.0116	0.0060	-0.0615	0.9509
maternal age	0.9595	0.9464	0.9728	0.0070	-5.8935	<0.0001
gestation length	0.9852	0.9757	0.9947	0.0049	-3.0253	0.0024
maternal bleeding	1.0834	1.0474	1.1206	0.0172	4.6513	<0.0001
fetal oxygen deprivation	0.9176	0.7404	1.1371	0.1094	-0.7855	0.4321
pregnancy oedema	1.1050	1.0241	1.1923	0.0388	2.5740	0.0100
apgar5 score	1.0527	1.0146	1.0923	0.0188	2.7320	0.0062
birth weight	1.0015	0.9925	1.0106	0.0046	0.3321	0.7397
preexisting hypertension	1.1662	0.9424	1.4432	0.1087	1.4145	0.1572
preexisting diabetes	1.0094	0.8610	1.1833	0.0811	0.1158	0.9077
previous induced abortion	1.0560	1.0324	1.0800	0.0114	4.7433	<0.0001
previous spontaneous abortion	1.0331	1.0081	1.0586	0.0124	2.6136	0.0089
education level	1.0008	0.9904	1.0112	0.0052	0.1548	0.8769
parental income	0.9741	0.9634	0.9850	0.0056	-4.6150	<0.0001
country	1.2267	1.1768	1.2787	0.0211	9.6487	<0.0001
region Sjælland	0.8114	0.7886	0.8348	0.0145	-14.3841	<0.0001
region Syddanmark	0.8771	0.8561	0.8986	0.0123	-10.5862	<0.0001
region Midtjylland	0.7360	0.7179	0.7546	0.0127	-24.0978	<0.0001
region Nordjylland	0.7285	0.7053	0.7524	0.0164	-19.1977	<0.0001
mother with disorder	1.3296	1.3013	1.3586	0.0110	25.8926	<0.0001
father with disorder	1.2407	1.2140	1.2680	0.0111	19.4280	<0.0001

10. Respiratory - upper	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.9998	1.5191	2.6326	0.1402	4.9410
paternal age	1.0013	0.9866	1.0162	0.0075	0.1786	0.8581
maternal age	0.9668	0.9504	0.9833	0.0086	-3.8879	0.0001
gestation length	0.9923	0.9806	1.0041	0.0060	-1.2674	0.2049
maternal bleeding	1.0761	1.0324	1.1217	0.0211	3.4681	0.0005
fetal oxygen deprivation	0.8362	0.6315	1.1073	0.1432	-1.2482	0.2119
pregnancy oedema	1.1372	1.0366	1.2475	0.0472	2.7225	0.0064
apgar5 score	1.0902	1.0427	1.1399	0.0227	3.8019	0.0001
birth weight	1.0024	0.9913	1.0137	0.0056	0.4308	0.6665
preexisting hypertension	1.1318	0.8663	1.4787	0.1363	0.9082	0.3637
preexisting diabetes	0.9439	0.7702	1.1568	0.1037	-0.5558	0.5783
previous induced abortion	1.0949	1.0652	1.1254	0.0140	6.4613	<0.0001
previous spontaneous abortion	1.0316	1.0010	1.0632	0.0153	2.0251	0.0428
education level	1.0127	0.9998	1.0257	0.0065	1.9369	0.0527
parental income	0.9900	0.9765	1.0036	0.0069	-1.4359	0.1510
country	1.4063	1.3386	1.4775	0.0251	13.5348	<0.0001
region Sjælland	0.8276	0.7990	0.8572	0.0179	-10.5500	<0.0001
region Syddanmark	0.9339	0.9066	0.9620	0.0151	-4.5181	<0.0001
region Midtjylland	0.7395	0.7169	0.7628	0.0158	-19.0335	<0.0001
region Nordjylland	0.6998	0.6716	0.7291	0.0209	-17.0259	<0.0001
mother with disorder	1.3807	1.3371	1.4257	0.0163	19.7293	<0.0001
father with disorder	1.2904	1.2479	1.3343	0.0170	14.9377	<0.0001

11. Respiratory - lower	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.6187	1.4204	1.8446	0.0666	7.2258
paternal age	1.0031	0.9730	1.0342	0.0155	0.2016	0.8401
maternal age	0.9158	0.8840	0.9487	0.0180	-4.8791	<0.0001
gestation length	0.9408	0.9176	0.9646	0.0127	-4.7868	<0.0001
maternal bleeding	1.1543	1.0620	1.2546	0.0425	3.3752	0.0007
fetal oxygen deprivation	0.9896	0.5850	1.6740	0.2682	-0.0388	0.9690
pregnancy oedema	1.1558	0.9588	1.3934	0.0953	1.5190	0.1287
apgar5 score	1.1228	1.0242	1.2309	0.0468	2.4716	0.0134
birth weight	0.9824	0.9596	1.0058	0.0119	-1.4761	0.1399
preexisting hypertension	1.2103	0.7015	2.0879	0.2782	0.6861	0.4926
preexisting diabetes	1.4144	1.0071	1.9864	0.1732	2.0010	0.0453
previous induced abortion	1.0015	0.9439	1.0626	0.0302	0.0497	0.9603
previous spontaneous abortion	1.1303	1.0622	1.2029	0.0317	3.8630	0.0001
education level	0.9675	0.9418	0.9939	0.0137	-2.4023	0.0162
parental income	0.9277	0.9014	0.9547	0.0146	-5.1210	<0.0001
country	1.1097	0.9986	1.2332	0.0538	1.9339	0.0531
region Sjælland	0.7978	0.7428	0.8569	0.0364	-6.1951	<0.0001
region Syddanmark	0.7261	0.6812	0.7740	0.0325	-9.8266	<0.0001
region Midtjylland	0.6505	0.6093	0.6945	0.0333	-12.8737	<0.0001
region Nordjylland	0.6551	0.6021	0.7128	0.0430	-9.8243	<0.0001
mother with disorder	1.5851	1.4441	1.7399	0.0475	9.6899	<0.0001
father with disorder	1.3628	1.2430	1.4941	0.0469	6.5931	<0.0001

12. Respiratory - chronic lower	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4465	1.3335	1.5690	0.0414	8.8969
paternal age	0.9980	0.9807	1.0156	0.0089	-0.2172	0.8280
maternal age	0.9755	0.9560	0.9954	0.0102	-2.4069	0.0160
gestation length	0.9670	0.9535	0.9806	0.0071	-4.7003	<0.0001
maternal bleeding	1.1178	1.0655	1.1726	0.0244	4.5602	<0.0001
fetal oxygen deprivation	1.0408	0.7597	1.4261	0.1606	0.2493	0.8030
pregnancy oedema	1.1233	1.0023	1.2590	0.0581	2.0000	0.0454
apgar5 score	1.0730	1.0185	1.1303	0.0265	2.6522	0.0079
birth weight	0.9772	0.9643	0.9903	0.0068	-3.3801	0.0007
preexisting hypertension	0.8698	0.6113	1.2376	0.1799	-0.7747	0.4384
preexisting diabetes	0.9545	0.7553	1.2062	0.1194	-0.3899	0.6965
previous induced abortion	1.0226	0.9891	1.0572	0.0169	1.3194	0.1870
previous spontaneous abortion	1.0530	1.0158	1.0914	0.0183	2.8211	0.0047
education level	1.0239	1.0081	1.0400	0.0079	2.9890	0.0027
parental income	0.9431	0.9276	0.9589	0.0084	-6.9059	<0.0001
country	0.9559	0.8960	1.0197	0.0329	-1.3669	0.1716
region Sjælland	0.8193	0.7853	0.8547	0.0215	-9.2252	<0.0001
region Syddanmark	0.9663	0.9325	1.0013	0.0181	-1.8852	0.0593
region Midtjylland	0.7513	0.7235	0.7802	0.0192	-14.8478	<0.0001
region Nordjylland	0.8561	0.8173	0.8967	0.0236	-6.5653	<0.0001
mother with disorder	1.9777	1.8882	2.0715	0.0236	28.8591	<0.0001
father with disorder	1.7727	1.6831	1.8671	0.0264	21.6381	<0.0001

13. Respiratory - asthma	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4513	1.3374	1.5748	0.0416	8.9332
paternal age	1.0082	0.9906	1.0261	0.0089	0.9119	0.3618
maternal age	0.9757	0.9560	0.9957	0.0103	-2.3732	0.0176
gestation length	0.9623	0.9488	0.9759	0.0071	-5.3570	<0.0001
maternal bleeding	1.1237	1.0710	1.1789	0.0244	4.7644	<0.0001
fetal oxygen deprivation	1.0800	0.7913	1.4739	0.1586	0.4853	0.6274
pregnancy oedema	1.1080	0.9869	1.2439	0.0590	1.7372	0.0823
apgar5 score	1.0726	1.0180	1.1302	0.0266	2.6305	0.0085
birth weight	0.9758	0.9628	0.9890	0.0068	-3.5724	0.0003
preexisting hypertension	0.8696	0.6111	1.2373	0.1799	-0.7763	0.4375
preexisting diabetes	0.9582	0.7582	1.2109	0.1194	-0.3573	0.7208
previous induced abortion	1.0245	0.9908	1.0594	0.0170	1.4236	0.1545
previous spontaneous abortion	1.0565	1.0191	1.0953	0.0184	2.9903	0.0027
education level	1.0159	1.0002	1.0319	0.0079	1.9914	0.0464
parental income	0.9375	0.9219	0.9532	0.0085	-7.5791	<0.0001
country	0.9329	0.8740	0.9957	0.0332	-2.0893	0.0366
region Sjælland	0.8203	0.7861	0.8560	0.0217	-9.1132	<0.0001
region Syddanmark	0.9636	0.9297	0.9987	0.0182	-2.0269	0.0426
region Midtjylland	0.7551	0.7271	0.7843	0.0193	-14.5290	<0.0001
region Nordjylland	0.8550	0.8161	0.8958	0.0237	-6.5858	<0.0001
mother with disorder	2.1842	2.0761	2.2978	0.0258	30.1915	<0.0001
father with disorder	2.0609	1.9372	2.1923	0.0315	22.9156	<0.0001

14. Respiratory - influenza	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4652	1.1845	1.8124	0.1085	3.5204
paternal age	1.0202	0.9726	1.0701	0.0243	0.8219	0.4111
maternal age	0.9128	0.8634	0.9651	0.0283	-3.2111	0.0013
gestation length	0.9109	0.8753	0.9479	0.0203	-4.5871	<0.0001
maternal bleeding	1.0735	0.9375	1.2293	0.0691	1.0268	0.3044
fetal oxygen deprivation	1.9432	1.0070	3.7499	0.3354	1.9807	0.0476
pregnancy oedema	1.3781	1.0339	1.8368	0.1465	2.1877	0.0286
apgar5 score	1.1003	0.9500	1.2744	0.0749	1.2756	0.2020
birth weight	0.9716	0.9355	1.0091	0.0193	-1.4885	0.1365
preexisting hypertension	2.8172	1.5926	4.9834	0.2910	3.5592	0.0003
preexisting diabetes	1.3105	0.7567	2.2694	0.2801	0.9653	0.3343
previous induced abortion	1.0225	0.9306	1.1235	0.0480	0.4634	0.6430
previous spontaneous abortion	1.0899	0.9852	1.2056	0.0514	1.6719	0.0945
education level	0.9502	0.9107	0.9913	0.0216	-2.3608	0.0182
parental income	0.8971	0.8570	0.9392	0.0233	-4.6444	<0.0001
country	1.9293	1.6906	2.2018	0.0673	9.7526	<0.0001
region Sjælland	0.7028	0.6278	0.7868	0.0575	-6.1223	<0.0001
region Syddanmark	0.5771	0.5202	0.6403	0.0529	-10.3719	<0.0001
region Midtjylland	0.5170	0.4643	0.5756	0.0547	-12.0414	<0.0001
region Nordjylland	0.4885	0.4219	0.5656	0.0747	-9.5847	<0.0001
mother with disorder	2.5029	1.9371	3.2339	0.1307	7.0172	<0.0001
father with disorder	1.7058	1.1888	2.4475	0.1842	2.8990	0.0037

15. Respiratory - pneumonia	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.6536	1.4459	1.8912	0.0684	7.3452
paternal age	0.9994	0.9680	1.0319	0.0163	-0.0319	0.9745
maternal age	0.9195	0.8861	0.9541	0.0188	-4.4449	<0.0001
gestation length	0.9415	0.9173	0.9663	0.0132	-4.5359	<0.0001
maternal bleeding	1.1920	1.0939	1.2988	0.0437	4.0101	<0.0001
fetal oxygen deprivation	0.7814	0.4197	1.4549	0.3171	-0.7775	0.4368
pregnancy oedema	1.1725	0.9649	1.4247	0.0994	1.6006	0.1094
apgar5 score	1.1345	1.0314	1.2478	0.0485	2.5983	0.0093
birth weight	0.9902	0.9662	1.0149	0.0125	-0.7787	0.4361
preexisting hypertension	1.3374	0.7752	2.3076	0.2782	1.0449	0.2960
preexisting diabetes	1.3807	0.9675	1.9705	0.1814	1.7780	0.0753
previous induced abortion	0.9952	0.9354	1.0589	0.0316	-0.1507	0.8801
previous spontaneous abortion	1.1223	1.0514	1.1979	0.0332	3.4694	0.0005
education level	0.9627	0.9359	0.9902	0.0144	-2.6368	0.0083
parental income	0.9391	0.9112	0.9677	0.0153	-4.0913	<0.0001
country	1.1092	0.9936	1.2383	0.0561	1.8459	0.0648
region Sjælland	0.7750	0.7191	0.8353	0.0381	-6.6694	<0.0001
region Syddanmark	0.7303	0.6835	0.7803	0.0337	-9.3001	<0.0001
region Midtjylland	0.6380	0.5957	0.6833	0.0349	-12.8422	<0.0001
region Nordjylland	0.6024	0.5502	0.6596	0.0462	-10.9559	<0.0001
mother with disorder	1.5898	1.4350	1.7613	0.0522	8.8721	<0.0001
father with disorder	1.3477	1.2190	1.4899	0.0511	5.8299	<0.0001

16. Respiratory - COPD	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	2.1195	1.5349	2.9268	0.1646	4.5620
paternal age	0.9527	0.8649	1.0495	0.0493	-0.9807	0.3267
maternal age	0.9454	0.8460	1.0566	0.0567	-0.9888	0.3227
gestation length	1.0242	0.9455	1.1094	0.0407	0.5867	0.5573
maternal bleeding	1.2796	0.9911	1.6520	0.1303	1.8918	0.0585
fetal oxygen deprivation	0.6305	0.0883	4.5002	1.0026	-0.4598	0.6456
pregnancy oedema	1.5897	0.9917	2.5483	0.2407	1.9255	0.0541
apgar5 score	1.1194	0.8310	1.5080	0.1520	0.7424	0.4578
birth weight	0.8669	0.8040	0.9347	0.0384	-3.7147	0.0002
preexisting hypertension	0.0000	0.0000	Inf	699.1457	-0.0186	0.9851
preexisting diabetes	1.1143	0.2766	4.4894	0.7109	0.1523	0.8789
previous induced abortion	1.1268	0.9378	1.3540	0.0936	1.2752	0.2022
previous spontaneous abortion	1.0182	0.8283	1.2515	0.1052	0.1713	0.8639
education level	0.9994	0.9169	1.0892	0.0439	-0.0136	0.9891
parental income	0.8112	0.7408	0.8883	0.0463	-4.5148	<0.0001
country	1.1506	0.8256	1.6037	0.1693	0.8285	0.4073
region Sjælland	0.8304	0.6644	1.0378	0.1137	-1.6337	0.1023
region Syddanmark	0.6986	0.5690	0.8576	0.1046	-3.4268	0.0006
region Midtjylland	0.5772	0.4634	0.7190	0.1120	-4.9042	<0.0001
region Nordjylland	0.7104	0.5463	0.9238	0.1340	-2.5508	0.0107
mother with disorder	1.9286	1.3686	2.7177	0.1749	3.7534	0.0001
father with disorder	1.6667	1.1832	2.3478	0.1748	2.9226	0.0034

17. Digestive - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1319	1.0747	1.1921	0.0264	4.6864
paternal age	0.9811	0.9705	0.9918	0.0055	-3.4424	0.0005
maternal age	0.9174	0.9060	0.9289	0.0063	-13.5176	<0.0001
gestation length	0.9826	0.9741	0.9912	0.0044	-3.9438	<0.0001
maternal bleeding	1.0647	1.0329	1.0974	0.0154	4.0634	<0.0001
fetal oxygen deprivation	1.0383	0.8749	1.2323	0.0873	0.4308	0.6665
pregnancy oedema	1.1367	1.0668	1.2112	0.0323	3.9597	<0.0001
apgar5 score	1.0578	1.0234	1.0934	0.0168	3.3320	0.0008
birth weight	0.9809	0.9729	0.9889	0.0041	-4.6309	<0.0001
preexisting hypertension	1.0011	0.8090	1.2388	0.1086	0.0107	0.9913
preexisting diabetes	1.1478	1.0010	1.3161	0.0698	1.9752	0.0482
previous induced abortion	1.0374	1.0163	1.0590	0.0104	3.5102	0.0004
previous spontaneous abortion	1.0460	1.0231	1.0694	0.0112	3.9893	<0.0001
education level	0.9591	0.9501	0.9682	0.0048	-8.6570	<0.0001
parental income	0.9855	0.9756	0.9955	0.0051	-2.8342	0.0045
country	0.8454	0.8096	0.8828	0.0220	-7.6009	<0.0001
region Sjælland	0.9590	0.9346	0.9840	0.0131	-3.1806	0.0014
region Syddanmark	1.0309	1.0082	1.0542	0.0113	2.6825	0.0073
region Midtjylland	0.8759	0.8560	0.8964	0.0117	-11.2440	<0.0001
region Nordjylland	0.9177	0.8918	0.9444	0.0146	-5.8751	<0.0001
mother with disorder	1.3052	1.2825	1.3284	0.0089	29.7029	<0.0001
father with disorder	1.1841	1.1634	1.2051	0.0089	18.8522	<0.0001

18. Endocrine - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2498	1.1615	1.3448	0.0373	5.9680
paternal age	0.9493	0.9343	0.9646	0.0081	-6.3778	<0.0001
maternal age	0.8715	0.8556	0.8878	0.0094	-14.5499	<0.0001
gestation length	0.9888	0.9758	1.0020	0.0067	-1.6617	0.0965
maternal bleeding	1.0630	1.0151	1.1131	0.0235	2.5993	0.0093
fetal oxygen deprivation	1.1572	0.9064	1.4773	0.1246	1.1720	0.2411
pregnancy oedema	1.2313	1.1321	1.3393	0.0428	4.8531	<0.0001
apgar5 score	1.1654	1.1098	1.2237	0.0249	6.1377	<0.0001
birth weight	1.0353	1.0227	1.0482	0.0062	5.5293	<0.0001
preexisting hypertension	1.0635	0.7852	1.4404	0.1547	0.3979	0.6906
preexisting diabetes	1.5223	1.2944	1.7905	0.0827	5.0777	<0.0001
previous induced abortion	1.0197	0.9881	1.0524	0.0160	1.2183	0.2230
previous spontaneous abortion	1.0518	1.0169	1.0878	0.0171	2.9394	0.0032
education level	0.8468	0.8349	0.8589	0.0072	-23.0261	<0.0001
parental income	0.8842	0.8709	0.8978	0.0077	-15.8490	<0.0001
country	0.8548	0.8056	0.9070	0.0302	-5.1861	<0.0001
region Sjælland	1.2519	1.2060	1.2995	0.0190	11.7993	<0.0001
region Syddanmark	1.1694	1.1305	1.2095	0.0172	9.0799	<0.0001
region Midtjylland	0.8271	0.7972	0.8580	0.0187	-10.1180	<0.0001
region Nordjylland	0.8678	0.8292	0.9083	0.0232	-6.0970	<0.0001
mother with disorder	1.6514	1.6044	1.6997	0.0147	34.1040	<0.0001
father with disorder	1.5128	1.4625	1.5649	0.0172	23.9887	<0.0001

19. Endocrine - obesity	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1916	1.0885	1.3046	0.0462	3.7952
paternal age	0.9285	0.9103	0.9471	0.0101	-7.3198	<0.0001
maternal age	0.8198	0.8009	0.8391	0.0118	-16.6960	<0.0001
gestation length	1.0050	0.9885	1.0218	0.0084	0.5936	0.5527
maternal bleeding	1.0765	1.0160	1.1406	0.0295	2.4979	0.0124
fetal oxygen deprivation	1.1821	0.8724	1.6019	0.1550	1.0795	0.2803
pregnancy oedema	1.2645	1.1456	1.3959	0.0504	4.6559	<0.0001
apgar5 score	1.1945	1.1242	1.2693	0.0309	5.7399	<0.0001
birth weight	1.0755	1.0590	1.0923	0.0079	9.2091	<0.0001
preexisting hypertension	1.1374	0.7892	1.6392	0.1864	0.6905	0.4898
preexisting diabetes	1.6679	1.3602	2.0452	0.1040	4.9169	<0.0001
previous induced abortion	1.0187	0.9790	1.0600	0.0202	0.9145	0.3604
previous spontaneous abortion	1.0662	1.0216	1.1128	0.0218	2.9422	0.0032
education level	0.7639	0.7503	0.7778	0.0092	-29.2593	<0.0001
parental income	0.8557	0.8394	0.8723	0.0098	-15.8812	<0.0001
country	0.6193	0.5712	0.6716	0.0413	-11.5984	<0.0001
region Sjælland	1.4857	1.4184	1.5563	0.0236	16.7269	<0.0001
region Syddanmark	1.3026	1.2478	1.3599	0.0219	12.0420	<0.0001
region Midtjylland	0.7980	0.7602	0.8377	0.0247	-9.1105	<0.0001
region Nordjylland	0.8534	0.8042	0.9055	0.0302	-5.2406	<0.0001
mother with disorder	2.3340	2.2258	2.4475	0.0242	34.9937	<0.0001
father with disorder	1.9770	1.8367	2.1281	0.0375	18.1434	<0.0001

20. Genitourinary - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1776	1.0853	1.2777	0.0416	3.9267
paternal age	0.9672	0.9510	0.9836	0.0086	-3.8722	0.0001
maternal age	0.8900	0.8726	0.9076	0.0100	-11.6140	<0.0001
gestation length	0.9816	0.9681	0.9953	0.0070	-2.6129	0.0089
maternal bleeding	1.1251	1.0738	1.1789	0.0238	4.9503	<0.0001
fetal oxygen deprivation	0.8135	0.5889	1.1239	0.1648	-1.2512	0.2108
pregnancy oedema	1.1380	1.0275	1.2605	0.0521	2.4806	0.0131
apgar5 score	1.0480	0.9934	1.1056	0.0272	1.7202	0.0853
birth weight	0.9581	0.9456	0.9707	0.0066	-6.4206	<0.0001
preexisting hypertension	1.2001	0.8862	1.6252	0.1547	1.1793	0.2382
preexisting diabetes	1.1710	0.9452	1.4507	0.1092	1.4447	0.1485
previous induced abortion	1.1267	1.0917	1.1629	0.0161	7.4076	<0.0001
previous spontaneous abortion	1.0440	1.0078	1.0815	0.0180	2.3915	0.0167
education level	0.9250	0.9113	0.9389	0.0076	-10.2393	<0.0001
parental income	0.9283	0.9138	0.9430	0.0080	-9.2393	<0.0001
country	0.8874	0.8347	0.9433	0.0312	-3.8270	0.0001
region Sjælland	0.7068	0.6791	0.7357	0.0203	-17.0072	<0.0001
region Syddanmark	0.6676	0.6445	0.6915	0.0179	-22.4944	<0.0001
region Midtjylland	0.6189	0.5970	0.6415	0.0183	-26.1738	<0.0001
region Nordjylland	0.6194	0.5913	0.6488	0.0236	-20.2316	<0.0001
mother with disorder	1.3177	1.2758	1.3610	0.0164	16.7316	<0.0001
father with disorder	1.2786	1.2218	1.3379	0.0231	10.6155	<0.0001

21. Genitourinary - kidney infection	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.4194	1.1611	1.7350	0.1024	3.4185	0.0006
paternal age	0.9844	0.9431	1.0277	0.0219	-0.7128	0.4759
maternal age	0.8572	0.8151	0.9014	0.0256	-6.0013	<0.0001
gestation length	1.0140	0.9792	1.0502	0.0178	0.7834	0.4333
maternal bleeding	1.1370	1.0100	1.2799	0.0604	2.1254	0.0335
fetal oxygen deprivation	0.7711	0.3202	1.8569	0.4483	-0.5795	0.5622
pregnancy oedema	0.8451	0.6180	1.1555	0.1596	-1.0540	0.2918
apgar5 score	1.1387	0.9981	1.2991	0.0672	1.9321	0.0533
birth weight	0.9874	0.9553	1.0206	0.0168	-0.7468	0.4551
preexisting hypertension	0.5216	0.1679	1.6195	0.5780	-1.1259	0.2602
preexisting diabetes	1.4261	0.8824	2.3047	0.2449	1.4493	0.1472
previous induced abortion	1.1702	1.0817	1.2659	0.0401	3.9185	<0.0001
previous spontaneous abortion	1.1164	1.0232	1.2181	0.0444	2.4758	0.0132
education level	0.9354	0.9003	0.9719	0.0194	-3.4217	0.0006
parental income	0.9560	0.9183	0.9953	0.0205	-2.1859	0.0288
country	0.6327	0.5305	0.7546	0.0898	-5.0920	<0.0001
region Sjælland	0.6796	0.6139	0.7524	0.0519	-7.4392	<0.0001
region Syddanmark	0.6308	0.5764	0.6904	0.0460	-10.0116	<0.0001
region Midtjylland	0.6346	0.5801	0.6942	0.0457	-9.9351	<0.0001
region Nordjylland	0.6390	0.5696	0.7169	0.0586	-7.6325	<0.0001
mother with disorder	1.5065	1.2137	1.8699	0.1102	3.7173	0.0002
father with disorder	1.7034	1.1196	2.5916	0.2141	2.4877	0.0128

22. Musculoskeletal - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.1507	1.1060	1.1972	0.0201	6.9515	<0.0001
paternal age	0.9734	0.9655	0.9814	0.0041	-6.4612	<0.0001
maternal age	0.9366	0.9278	0.9454	0.0047	-13.6665	<0.0001
gestation length	1.0002	0.9937	1.0067	0.0033	0.0669	0.9465
maternal bleeding	1.0876	1.0634	1.1122	0.0114	7.3392	<0.0001
fetal oxygen deprivation	1.1704	1.0404	1.3165	0.0600	2.6209	0.0087
pregnancy oedema	1.1067	1.0522	1.1641	0.0257	3.9332	<0.0001
apgar5 score	1.0178	0.9925	1.0437	0.0128	1.3744	0.1693
birth weight	0.9898	0.9838	0.9959	0.0031	-3.2653	0.0010
preexisting hypertension	1.0574	0.9087	1.2304	0.0773	0.7221	0.4701
preexisting diabetes	1.0131	0.9114	1.1261	0.0539	0.2420	0.8087
previous induced abortion	1.0479	1.0320	1.0640	0.0078	5.9985	<0.0001
previous spontaneous abortion	1.0304	1.0135	1.0477	0.0084	3.5428	0.0003
education level	0.9552	0.9484	0.9620	0.0036	-12.6205	<0.0001
parental income	0.9932	0.9856	1.0008	0.0038	-1.7512	0.0799
country	0.8558	0.8291	0.8834	0.0161	-9.6201	<0.0001
region Sjælland	0.8460	0.8293	0.8630	0.0101	-16.4093	<0.0001
region Syddanmark	0.8842	0.8692	0.8995	0.0087	-14.0782	<0.0001
region Midtjylland	1.0389	1.0220	1.0561	0.0083	4.5636	<0.0001
region Nordjylland	0.8327	0.8144	0.8513	0.0112	-16.2125	<0.0001
mother with disorder	1.3412	1.3250	1.3576	0.0061	47.3784	<0.0001
father with disorder	1.2297	1.2147	1.2449	0.0062	33.0616	<0.0001

23. Neoplasms - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1965	1.1090	1.2910	0.0387	4.6301
paternal age	0.9826	0.9669	0.9986	0.0082	-2.1247	0.0336
maternal age	0.9713	0.9537	0.9893	0.0093	-3.0998	0.0019
gestation length	0.9992	0.9866	1.0120	0.0064	-0.1093	0.9129
maternal bleeding	1.0699	1.0235	1.1183	0.0225	2.9919	0.0027
fetal oxygen deprivation	1.1125	0.8807	1.4053	0.1191	0.8948	0.3708
pregnancy oedema	1.0002	0.9063	1.1039	0.0503	0.0050	0.9960
apgar5 score	0.9849	0.9368	1.0355	0.0255	-0.5920	0.5538
birth weight	1.0192	1.0071	1.0314	0.0060	3.1394	0.0016
preexisting hypertension	0.9166	0.6637	1.2658	0.1646	-0.5285	0.5970
preexisting diabetes	1.0152	0.8217	1.2542	0.1078	0.1399	0.8887
previous induced abortion	0.9909	0.9612	1.0216	0.0155	-0.5825	0.5601
previous spontaneous abortion	1.0214	0.9889	1.0550	0.0165	1.2880	0.1977
education level	1.0070	0.9932	1.0210	0.0070	1.0015	0.3165
parental income	1.0274	1.0124	1.0426	0.0074	3.6129	0.0003
country	0.9162	0.8565	0.9801	0.0343	-2.5445	0.0109
region Sjælland	1.1096	1.0683	1.1525	0.0193	5.3800	<0.0001
region Syddanmark	1.1874	1.1488	1.2273	0.0168	10.1777	<0.0001
region Midtjylland	1.1417	1.1044	1.1802	0.0169	7.8273	<0.0001
region Nordjylland	0.9370	0.8967	0.9790	0.0224	-2.9026	0.0037
mother with disorder	1.1846	1.1558	1.2140	0.0125	13.5036	<0.0001
father with disorder	1.1538	1.1164	1.1924	0.0167	8.5200	<0.0001

24. Neoplasms - benign	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1925	1.0976	1.2956	0.0423	4.1633
paternal age	0.9773	0.9605	0.9944	0.0088	-2.5897	0.0096
maternal age	0.9775	0.9584	0.9970	0.0100	-2.2489	0.0245
gestation length	0.9976	0.9841	1.0113	0.0069	-0.3386	0.7348
maternal bleeding	1.0580	1.0086	1.1098	0.0243	2.3147	0.0206
fetal oxygen deprivation	1.1542	0.8989	1.4820	0.1275	1.1243	0.2608
pregnancy oedema	1.0003	0.8981	1.1141	0.0549	0.0062	0.9950
apgar5 score	0.9801	0.9286	1.0343	0.0274	-0.7304	0.4651
birth weight	1.0163	1.0034	1.0295	0.0065	2.4868	0.0128
preexisting hypertension	0.8470	0.5918	1.2121	0.1828	-0.9080	0.3638
preexisting diabetes	1.0284	0.8214	1.2876	0.1146	0.2447	0.8066
previous induced abortion	0.9972	0.9651	1.0303	0.0166	-0.1656	0.8683
previous spontaneous abortion	1.0420	1.0066	1.0787	0.0176	2.3338	0.0196
education level	1.0121	0.9971	1.0273	0.0075	1.5853	0.1128
parental income	1.0249	1.0088	1.0413	0.0080	3.0484	0.0023
country	0.9226	0.8588	0.9912	0.0365	-2.2005	0.0277
region Sjælland	1.0989	1.0548	1.1449	0.0208	4.5164	<0.0001
region Syddanmark	1.2012	1.1592	1.2447	0.0181	10.1049	<0.0001
region Midtjylland	1.1515	1.1112	1.1933	0.0181	7.7536	<0.0001
region Nordjylland	0.9003	0.8581	0.9445	0.0244	-4.2881	<0.0001
mother with disorder	1.2137	1.1791	1.2494	0.0147	13.1172	<0.0001
father with disorder	1.1925	1.1420	1.2453	0.0220	7.9773	<0.0001

25. Circulatory - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1121	0.9969	1.2407	0.0558	1.9046
paternal age	0.9728	0.9501	0.9961	0.0120	-2.2772	0.0227
maternal age	0.9462	0.9211	0.9721	0.0137	-4.0185	<0.0001
gestation length	0.9690	0.9509	0.9874	0.0095	-3.2755	0.0010
maternal bleeding	1.1394	1.0697	1.2136	0.0322	4.0526	<0.0001
fetal oxygen deprivation	0.8315	0.5654	1.2229	0.1968	-0.9371	0.3486
pregnancy oedema	1.0120	0.8785	1.1658	0.0721	0.1661	0.8680
apgar5 score	1.2349	1.1544	1.3209	0.0343	6.1392	<0.0001
birth weight	0.9760	0.9589	0.9934	0.0090	-2.6886	0.0071
preexisting hypertension	1.1761	0.8152	1.6970	0.1870	0.8676	0.3855
preexisting diabetes	0.9493	0.6974	1.2921	0.1573	-0.3307	0.7408
previous induced abortion	0.9829	0.9393	1.0285	0.0231	-0.7436	0.4571
previous spontaneous abortion	1.0404	0.9917	1.0916	0.0244	1.6201	0.1052
education level	0.9741	0.9544	0.9942	0.0104	-2.5081	0.0121
parental income	0.9792	0.9582	1.0007	0.0110	-1.8948	0.0581
country	0.8924	0.8121	0.9806	0.0481	-2.3651	0.0180
region Sjælland	0.9897	0.9370	1.0454	0.0279	-0.3682	0.7126
region Syddanmark	0.9163	0.8723	0.9625	0.0251	-3.4798	0.0005
region Midtjylland	0.9554	0.9101	1.0029	0.0247	-1.8413	0.0655
region Nordjylland	0.7704	0.7214	0.8227	0.0334	-7.7861	<0.0001
mother with disorder	1.4909	1.4270	1.5576	0.0223	17.8648	<0.0001
father with disorder	1.3222	1.2689	1.3777	0.0209	13.3130	<0.0001

26. Nervous System - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3524	1.1959	1.5293	0.0627	4.8112
paternal age	0.9804	0.9521	1.0096	0.0149	-1.3191	0.1871
maternal age	0.8900	0.8603	0.9208	0.0173	-6.7132	<0.0001
gestation length	0.9920	0.9687	1.0160	0.0121	-0.6543	0.5129
maternal bleeding	1.1314	1.0441	1.2260	0.0409	3.0149	0.0025
fetal oxygen deprivation	1.5102	1.0471	2.1782	0.1868	2.2065	0.0273
pregnancy oedema	1.1832	1.0098	1.3865	0.0808	2.0807	0.0374
apgar5 score	1.0732	0.9799	1.1755	0.0464	1.5231	0.1277
birth weight	0.9768	0.9553	0.9988	0.0113	-2.0651	0.0389
preexisting hypertension	1.0825	0.6139	1.9085	0.2893	0.2740	0.7840
preexisting diabetes	1.4650	1.0485	2.0469	0.1706	2.2380	0.0252
previous induced abortion	1.0664	1.0082	1.1279	0.0286	2.2463	0.0246
previous spontaneous abortion	1.0933	1.0300	1.1606	0.0304	2.9303	0.0033
education level	0.9016	0.8787	0.9251	0.0131	-7.8894	<0.0001
parental income	0.9399	0.9145	0.9661	0.0139	-4.4255	<0.0001
country	0.6862	0.6027	0.7813	0.0661	-5.6882	<0.0001
region Sjælland	1.3932	1.3035	1.4890	0.0339	9.7673	<0.0001
region Syddanmark	1.1524	1.0828	1.2265	0.0317	4.4642	<0.0001
region Midtjylland	0.9780	0.9166	1.0434	0.0330	-0.6726	0.5011
region Nordjylland	0.7574	0.6935	0.8272	0.0449	-6.1784	<0.0001
mother with disorder	1.5697	1.4651	1.6818	0.0351	12.8151	<0.0001
father with disorder	1.4063	1.2917	1.5311	0.0433	7.8650	<0.0001

27. Eye/adnexa - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3439	1.2057	1.4980	0.0553	5.3374
paternal age	1.0036	0.9883	1.0191	0.0078	0.4623	0.6438
maternal age	0.9761	0.9591	0.9935	0.0089	-2.6837	0.0072
gestation length	0.9557	0.9439	0.9677	0.0063	-7.1251	<0.0001
maternal bleeding	1.0895	1.0440	1.1370	0.0217	3.9370	<0.0001
fetal oxygen deprivation	1.1580	0.9055	1.4810	0.1255	1.1691	0.2423
pregnancy oedema	1.0570	0.9579	1.1664	0.0502	1.1039	0.2696
apgar5 score	1.0668	1.0179	1.1179	0.0239	2.7062	0.0068
birth weight	0.9580	0.9469	0.9693	0.0059	-7.1712	<0.0001
preexisting hypertension	1.0174	0.7591	1.3635	0.1493	0.1157	0.9078
preexisting diabetes	1.0961	0.9015	1.3329	0.0997	0.9206	0.3572
previous induced abortion	1.0355	1.0057	1.0662	0.0149	2.3417	0.0191
previous spontaneous abortion	1.0649	1.0320	1.0988	0.0159	3.9337	<0.0001
education level	0.9582	0.9454	0.9711	0.0068	-6.2411	<0.0001
parental income	0.9567	0.9431	0.9704	0.0072	-6.0702	<0.0001
country	1.0333	0.9785	1.0913	0.0278	1.1797	0.2381
region Sjælland	0.7686	0.7414	0.7968	0.0183	-14.3026	<0.0001
region Syddanmark	0.7535	0.7302	0.7775	0.0160	-17.6485	<0.0001
region Midtjylland	0.6397	0.6192	0.6610	0.0166	-26.8004	<0.0001
region Nordjylland	0.6694	0.6419	0.6980	0.0213	-18.7850	<0.0001
mother with disorder	1.3313	1.2831	1.3814	0.0188	15.1965	<0.0001
father with disorder	1.2361	1.1901	1.2838	0.0193	10.9628	<0.0001

28. Mental - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1956	1.1306	1.2644	0.0285	6.2604
paternal age	1.0122	1.0007	1.0239	0.0058	2.0859	0.0369
maternal age	0.9184	0.9061	0.9308	0.0068	-12.3935	<0.0001
gestation length	0.9811	0.9717	0.9906	0.0049	-3.8751	0.0001
maternal bleeding	1.1328	1.0971	1.1696	0.0163	7.6405	<0.0001
fetal oxygen deprivation	1.1972	0.9948	1.4407	0.0944	1.9052	0.0567
pregnancy oedema	1.0729	0.9953	1.1566	0.0383	1.8385	0.0659
apgar5 score	1.0600	1.0219	1.0995	0.0186	3.1251	0.0017
birth weight	0.9718	0.9630	0.9807	0.0046	-6.1335	<0.0001
preexisting hypertension	1.1690	0.9421	1.4505	0.1100	1.4188	0.1559
preexisting diabetes	1.0875	0.9378	1.2611	0.0755	1.1106	0.2667
previous induced abortion	1.1292	1.1049	1.1541	0.0111	10.9336	<0.0001
previous spontaneous abortion	1.0701	1.0443	1.0965	0.0124	5.4413	<0.0001
education level	0.9607	0.9505	0.9710	0.0054	-7.3597	<0.0001
parental income	0.7863	0.7774	0.7953	0.0058	-41.1905	<0.0001
country	0.4847	0.4597	0.5111	0.0270	-26.7723	<0.0001
region Sjælland	0.8470	0.8234	0.8713	0.0144	-11.5155	<0.0001
region Syddanmark	0.9173	0.8954	0.9396	0.0122	-7.0261	<0.0001
region Midtjylland	0.7687	0.7493	0.7885	0.0129	-20.2398	<0.0001
region Nordjylland	0.5602	0.5402	0.5811	0.0186	-31.1175	<0.0001
mother with disorder	2.0378	1.9897	2.0871	0.0121	58.4125	<0.0001
father with disorder	1.6307	1.5853	1.6775	0.0144	33.9188	<0.0001

Table S7 - Full Cox regression outputs - impact of adenotonsillectomy on risk of later disease.

1. Infectious/parasitic - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1771	1.1080	1.2505	0.0308	5.2852
paternal age	0.9953	0.9816	1.0091	0.0070	-0.6677	0.5042
maternal age	0.9702	0.9550	0.9858	0.0080	-3.7259	0.0001
gestation length	0.9896	0.9787	1.0007	0.0056	-1.8208	0.0686
maternal bleeding	1.1192	1.0773	1.1628	0.0194	5.7807	<0.0001
fetal oxygen deprivation	0.8632	0.6697	1.1125	0.1294	-1.1361	0.2559
pregnancy oedema	1.0653	0.9742	1.1649	0.0455	1.3888	0.1648
apgar5 score	1.0487	1.0048	1.0946	0.0218	2.1792	0.0293
birth weight	0.9941	0.9838	1.0046	0.0053	-1.0977	0.2723
preexisting hypertension	0.9798	0.7500	1.2799	0.1363	-0.1494	0.8811
preexisting diabetes	1.0066	0.8394	1.2071	0.0926	0.0717	0.9428
previous induced abortion	1.0968	1.0690	1.1252	0.0130	7.0702	<0.0001
previous spontaneous abortion	1.0436	1.0147	1.0733	0.0143	2.9790	0.0028
education level	0.9911	0.9793	1.0031	0.0061	-1.4516	0.1465
parental income	0.9868	0.9743	0.9995	0.0065	-2.0335	0.0419
country	1.2756	1.2171	1.3368	0.0239	10.1711	<0.0001
region Sjælland	0.7852	0.7605	0.8107	0.0162	-14.8414	<0.0001
region Syddanmark	0.6859	0.6664	0.7060	0.0146	-25.6594	<0.0001
region Midtjylland	0.7030	0.6834	0.7231	0.0144	-24.4581	<0.0001
region Nordjylland	0.6169	0.5936	0.6411	0.0196	-24.5919	<0.0001
mother with disorder	1.3806	1.3373	1.4254	0.0162	19.8202	<0.0001
father with disorder	1.2319	1.1911	1.2740	0.0171	12.1469	<0.0001

2. Allergic - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2042	1.1049	1.3125	0.0439	4.2314
paternal age	1.0015	0.9812	1.0222	0.0104	0.1451	0.8845
maternal age	1.0292	1.0055	1.0535	0.0118	2.4265	0.0152
gestation length	0.9928	0.9769	1.0089	0.0082	-0.8785	0.3796
maternal bleeding	1.1314	1.0709	1.1952	0.0280	4.4082	<0.0001
fetal oxygen deprivation	0.6066	0.3866	0.9519	0.2298	-2.1741	0.0296
pregnancy oedema	1.2399	1.0979	1.4003	0.0620	3.4659	0.0005
apgar5 score	1.0841	1.0211	1.1511	0.0305	2.6437	0.0081
birth weight	0.9783	0.9635	0.9934	0.0077	-2.8059	0.0050
preexisting hypertension	0.7466	0.4813	1.1580	0.2239	-1.3046	0.1920
preexisting diabetes	1.0876	0.8375	1.4123	0.1333	0.6300	0.5286
previous induced abortion	1.0345	0.9957	1.0748	0.0194	1.7436	0.0812
previous spontaneous abortion	1.0488	1.0066	1.0928	0.0209	2.2762	0.0228
education level	1.0639	1.0453	1.0829	0.0090	6.8756	<0.0001
parental income	1.0197	1.0008	1.0391	0.0095	2.0445	0.0408
country	1.3837	1.2903	1.4840	0.0356	9.1027	<0.0001
region Sjælland	0.6975	0.6628	0.7341	0.0260	-13.8274	<0.0001
region Syddanmark	1.0294	0.9893	1.0711	0.0202	1.4324	0.1520
region Midtjylland	0.7763	0.7442	0.8097	0.0215	-11.7692	<0.0001
region Nordjylland	0.7079	0.6688	0.7493	0.0290	-11.9081	<0.0001
mother with disorder	1.8689	1.7501	1.9957	0.0335	18.6651	<0.0001
father with disorder	1.7588	1.6203	1.9091	0.0418	13.4972	<0.0001

3. Allergic - rhinitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2474	1.1082	1.4041	0.0603	3.6636
paternal age	1.0147	0.9855	1.0447	0.0148	0.9828	0.3256
maternal age	1.0653	1.0307	1.1011	0.0168	3.7532	0.0001
gestation length	0.9957	0.9735	1.0183	0.0114	-0.3731	0.7090
maternal bleeding	1.0652	0.9838	1.1534	0.0405	1.5592	0.1189
fetal oxygen deprivation	0.5600	0.2910	1.0776	0.3339	-1.7360	0.0825
pregnancy oedema	1.2134	1.0200	1.4434	0.0885	2.1845	0.0289
apgar5 score	1.1074	1.0198	1.2026	0.0420	2.4267	0.0152
birth weight	0.9851	0.9642	1.0065	0.0109	-1.3657	0.1720
preexisting hypertension	0.7307	0.3928	1.3594	0.3166	-0.9903	0.3220
preexisting diabetes	0.8232	0.5409	1.2528	0.2142	-0.9076	0.3640
previous induced abortion	1.0001	0.9466	1.0566	0.0280	0.0044	0.9964
previous spontaneous abortion	1.0349	0.9764	1.0968	0.0296	1.1575	0.2470
education level	1.1292	1.1011	1.1580	0.0128	9.4542	<0.0001
parental income	1.0263	0.9990	1.0543	0.0137	1.8941	0.0582
country	1.4283	1.2857	1.5868	0.0536	6.6430	<0.0001
region Sjælland	0.8852	0.8192	0.9565	0.0395	-3.0854	0.0020
region Syddanmark	1.7586	1.6603	1.8628	0.0293	19.2333	<0.0001
region Midtjylland	1.0976	1.0308	1.1688	0.0320	2.9074	0.0036
region Nordjylland	1.2889	1.1952	1.3901	0.0385	6.5873	<0.0001
mother with disorder	3.2098	2.8646	3.5967	0.0580	20.0863	<0.0001
father with disorder	2.8043	2.4399	3.2232	0.0710	14.5180	<0.0001

4. Allergic - conjunctivitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3613	1.0700	1.7321	0.1228	2.5105
paternal age	1.0121	0.9516	1.0763	0.0314	0.3833	0.7014
maternal age	1.0623	0.9905	1.1393	0.0357	1.6934	0.0903
gestation length	1.0211	0.9736	1.0709	0.0242	0.8606	0.3894
maternal bleeding	1.2102	1.0309	1.4206	0.0817	2.3328	0.0196
fetal oxygen deprivation	0.0000	0.0000	Inf	370.7101	-0.0344	0.9725
pregnancy oedema	1.4491	1.0246	2.0495	0.1768	2.0974	0.0359
apgar5 score	1.0475	0.8776	1.2502	0.0902	0.5142	0.6071
birth weight	1.0077	0.9627	1.0548	0.0233	0.3318	0.7400
preexisting hypertension	0.6319	0.1577	2.5318	0.7081	-0.6481	0.5169
preexisting diabetes	1.1978	0.5680	2.5261	0.3806	0.4742	0.6353
previous induced abortion	1.0707	0.9551	1.2002	0.0582	1.1730	0.2407
previous spontaneous abortion	1.1493	1.0198	1.2953	0.0610	2.2812	0.0225
education level	1.0637	1.0082	1.1223	0.0273	2.2595	0.0238
parental income	1.0372	0.9791	1.0988	0.0294	1.2443	0.2133
country	1.5300	1.2440	1.8817	0.1055	4.0288	<0.0001
region Sjælland	0.6452	0.5421	0.7679	0.0888	-4.9314	<0.0001
region Syddanmark	1.8996	1.6943	2.1297	0.0583	10.9978	<0.0001
region Midtjylland	0.6906	0.5975	0.7982	0.0739	-5.0081	<0.0001
region Nordjylland	0.9974	0.8439	1.1788	0.0852	-0.0296	0.9763
mother with disorder	1.8907	0.9436	3.7884	0.3545	1.7962	0.0724
father with disorder	2.8409	1.3513	5.9726	0.3791	2.7541	0.0058

5. Allergic - eczema/dermatitis	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1687	0.9881	1.3824	0.0856	1.8209
paternal age	0.9864	0.9487	1.0256	0.0198	-0.6867	0.4922
maternal age	1.0039	0.9603	1.0496	0.0226	0.1757	0.8605
gestation length	1.0206	0.9897	1.0524	0.0156	1.3021	0.1928
maternal bleeding	1.2050	1.0880	1.3346	0.0521	3.5794	0.0003
fetal oxygen deprivation	0.6867	0.3079	1.5313	0.4091	-0.9184	0.3583
pregnancy oedema	1.3291	1.0626	1.6626	0.1142	2.4916	0.0127
apgar5 score	1.0432	0.9276	1.1733	0.0599	0.7069	0.4795
birth weight	0.9868	0.9585	1.0159	0.0148	-0.8910	0.3729
preexisting hypertension	0.6868	0.2855	1.6522	0.4478	-0.8387	0.4016
preexisting diabetes	1.2062	0.7474	1.9468	0.2442	0.7679	0.4425
previous induced abortion	1.0715	0.9976	1.1509	0.0364	1.8953	0.0580
previous spontaneous abortion	1.0733	0.9933	1.1598	0.0395	1.7906	0.0733
education level	1.0392	1.0049	1.0747	0.0171	2.2455	0.0247
parental income	1.0477	1.0110	1.0856	0.0181	2.5668	0.0102
country	1.2562	1.0965	1.4392	0.0693	3.2881	0.0010
region Sjælland	0.6011	0.5451	0.6628	0.0498	-10.2037	<0.0001
region Syddanmark	0.8992	0.8344	0.9689	0.0381	-2.7878	0.0053
region Midtjylland	0.7870	0.7291	0.8496	0.0390	-6.1351	<0.0001
region Nordjylland	0.3941	0.3458	0.4491	0.0667	-13.9580	<0.0001
mother with disorder	2.4378	2.0254	2.9341	0.0945	9.4239	<0.0001
father with disorder	1.9400	1.4552	2.5863	0.1467	4.5171	<0.0001

6. Allergic - urticaria/angiodema	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1812	0.9985	1.3973	0.0857	1.9434
paternal age	1.0045	0.9664	1.0442	0.0197	0.2307	0.8174
maternal age	0.9836	0.9408	1.0282	0.0226	-0.7287	0.4661
gestation length	0.9829	0.9526	1.0141	0.0159	-1.0795	0.2803
maternal bleeding	1.2430	1.1229	1.3759	0.0518	4.1974	<0.0001
fetal oxygen deprivation	0.5339	0.2000	1.4249	0.5008	-1.2529	0.2102
pregnancy oedema	1.5137	1.2253	1.8701	0.1078	3.8445	0.0001
apgar5 score	1.0982	0.9778	1.2334	0.0592	1.5820	0.1136
birth weight	0.9722	0.9438	1.0015	0.0151	-1.8602	0.0628
preexisting hypertension	0.7050	0.2929	1.6967	0.4480	-0.7799	0.4354
preexisting diabetes	1.3536	0.8602	2.1298	0.2312	1.3093	0.1904
previous induced abortion	1.0644	0.9899	1.1444	0.0369	1.6881	0.0913
previous spontaneous abortion	1.0504	0.9705	1.1370	0.0403	1.2188	0.2229
education level	1.0342	0.9998	1.0696	0.0172	1.9540	0.0506
parental income	0.9719	0.9379	1.0072	0.0181	-1.5631	0.1180
country	1.4708	1.3033	1.6598	0.0616	6.2550	<0.0001
region Sjælland	0.5977	0.5454	0.6551	0.0467	-11.0020	<0.0001
region Syddanmark	0.6426	0.5950	0.6941	0.0392	-11.2509	<0.0001
region Midtjylland	0.4909	0.4518	0.5333	0.0423	-16.8068	<0.0001
region Nordjylland	0.3534	0.3111	0.4014	0.0650	-15.9940	<0.0001
mother with disorder	1.9059	1.5657	2.3202	0.1003	6.4283	<0.0001
father with disorder	1.4106	1.0672	1.8646	0.1423	2.4168	0.0156

7. Skin - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2834	1.2235	1.3462	0.0243	10.2405
paternal age	0.9930	0.9815	1.0046	0.0059	-1.1796	0.2381
maternal age	0.9498	0.9372	0.9626	0.0068	-7.5213	<0.0001
gestation length	0.9975	0.9882	1.0068	0.0047	-0.5215	0.6019
maternal bleeding	1.0672	1.0331	1.1025	0.0165	3.9223	<0.0001
fetal oxygen deprivation	0.8423	0.6870	1.0329	0.1040	-1.6487	0.0992
pregnancy oedema	1.1287	1.0515	1.2114	0.0361	3.3529	0.0007
apgar5 score	1.0966	1.0587	1.1357	0.0179	5.1493	<0.0001
birth weight	1.0237	1.0147	1.0328	0.0045	5.2101	<0.0001
preexisting hypertension	1.0193	0.8149	1.2751	0.1142	0.1681	0.8664
preexisting diabetes	1.1840	1.0303	1.3607	0.0709	2.3809	0.0172
previous induced abortion	1.0865	1.0630	1.1104	0.0111	7.4543	<0.0001
previous spontaneous abortion	1.0451	1.0204	1.0704	0.0122	3.6170	0.0002
education level	0.9641	0.9543	0.9739	0.0051	-7.0552	<0.0001
parental income	0.9681	0.9576	0.9786	0.0055	-5.8508	<0.0001
country	1.2951	1.2449	1.3473	0.0201	12.8258	<0.0001
region Sjælland	0.7942	0.7722	0.8168	0.0143	-16.0742	<0.0001
region Syddanmark	0.8635	0.8431	0.8844	0.0122	-12.0255	<0.0001
region Midtjylland	0.8484	0.8285	0.8688	0.0121	-13.5722	<0.0001
region Nordjylland	0.5890	0.5689	0.6098	0.0177	-29.8768	<0.0001
mother with disorder	1.3364	1.3035	1.3700	0.0126	22.8440	<0.0001
father with disorder	1.2905	1.2579	1.3239	0.0130	19.5323	<0.0001

8. Autoimmune - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1764	1.0916	1.2677	0.0381	4.2595
paternal age	0.9849	0.9677	1.0024	0.0090	-1.6869	0.0916
maternal age	0.9701	0.9507	0.9899	0.0103	-2.9426	0.0032
gestation length	0.9924	0.9786	1.0063	0.0071	-1.0669	0.2859
maternal bleeding	1.0878	1.0363	1.1417	0.0247	3.4064	0.0006
fetal oxygen deprivation	1.0539	0.7933	1.3999	0.1448	0.3624	0.7170
pregnancy oedema	1.2427	1.1218	1.3768	0.0522	4.1593	<0.0001
apgar5 score	0.9829	0.9306	1.0382	0.0279	-0.6155	0.5381
birth weight	0.9945	0.9815	1.0077	0.0067	-0.8113	0.4171
preexisting hypertension	1.0277	0.7472	1.4136	0.1626	0.1684	0.8662
preexisting diabetes	1.5506	1.3125	1.8318	0.0850	5.1579	<0.0001
previous induced abortion	0.9700	0.9379	1.0033	0.0171	-1.7678	0.0770
previous spontaneous abortion	1.0443	1.0079	1.0820	0.0181	2.3953	0.0166
education level	0.9910	0.9759	1.0063	0.0078	-1.1541	0.2484
parental income	1.0127	0.9963	1.0294	0.0083	1.5202	0.1284
country	0.9092	0.8484	0.9743	0.0352	-2.6954	0.0070
region Sjælland	0.9706	0.9317	1.0112	0.0209	-1.4233	0.1546
region Syddanmark	0.9822	0.9475	1.0183	0.0183	-0.9721	0.3309
region Midtjylland	0.9145	0.8819	0.9483	0.0185	-4.8282	<0.0001
region Nordjylland	0.7812	0.7440	0.8202	0.0248	-9.9344	<0.0001
mother with disorder	1.5423	1.4811	1.6060	0.0206	20.9806	<0.0001
father with disorder	1.4493	1.3888	1.5124	0.0217	17.0605	<0.0001

9. Respiratory - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3680	0.5690	3.2885	0.4475	0.7002
paternal age	0.9997	0.9878	1.0117	0.0060	-0.0445	0.9644
maternal age	0.9595	0.9464	0.9728	0.0070	-5.8898	<0.0001
gestation length	0.9853	0.9759	0.9949	0.0049	-2.9932	0.0027
maternal bleeding	1.0836	1.0476	1.1208	0.0172	4.6590	<0.0001
fetal oxygen deprivation	0.9175	0.7403	1.1370	0.1094	-0.7862	0.4317
pregnancy oedema	1.1045	1.0236	1.1919	0.0388	2.5613	0.0104
apgar5 score	1.0521	1.0139	1.0916	0.0188	2.6968	0.0070
birth weight	1.0013	0.9923	1.0103	0.0046	0.2831	0.7770
preexisting hypertension	1.1655	0.9418	1.4424	0.1087	1.4090	0.1588
preexisting diabetes	1.0093	0.8610	1.1833	0.0811	0.1153	0.9081
previous induced abortion	1.0563	1.0327	1.0803	0.0114	4.7662	<0.0001
previous spontaneous abortion	1.0331	1.0081	1.0587	0.0124	2.6138	0.0089
education level	1.0008	0.9905	1.0112	0.0052	0.1600	0.8728
parental income	0.9741	0.9633	0.9850	0.0056	-4.6199	<0.0001
country	1.2267	1.1768	1.2787	0.0211	9.6433	<0.0001
region Sjælland	0.8107	0.7880	0.8342	0.0145	-14.4274	<0.0001
region Syddanmark	0.8774	0.8563	0.8989	0.0123	-10.5551	<0.0001
region Midtjylland	0.7362	0.7181	0.7548	0.0127	-24.0740	<0.0001
region Nordjylland	0.7288	0.7056	0.7528	0.0165	-19.1648	<0.0001
mother with disorder	1.3300	1.3016	1.3590	0.0110	25.9046	<0.0001
father with disorder	1.2410	1.2143	1.2683	0.0111	19.4381	<0.0001

10. Respiratory - upper	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.7428	0.7248	4.1902	0.4475	1.2410
paternal age	1.0016	0.9869	1.0166	0.0075	0.2207	0.8252
maternal age	0.9666	0.9503	0.9832	0.0086	-3.9001	<0.0001
gestation length	0.9926	0.9809	1.0044	0.0060	-1.2232	0.2212
maternal bleeding	1.0773	1.0335	1.1230	0.0211	3.5192	0.0004
fetal oxygen deprivation	0.8366	0.6318	1.1079	0.1432	-1.2446	0.2132
pregnancy oedema	1.1358	1.0352	1.2461	0.0472	2.6934	0.0070
apgar5 score	1.0874	1.0399	1.1370	0.0227	3.6786	0.0002
birth weight	1.0024	0.9912	1.0136	0.0056	0.4238	0.6716
preexisting hypertension	1.1318	0.8663	1.4786	0.1363	0.9080	0.3638
preexisting diabetes	0.9440	0.7703	1.1569	0.1037	-0.5548	0.5790
previous induced abortion	1.0955	1.0658	1.1261	0.0140	6.4992	<0.0001
previous spontaneous abortion	1.0321	1.0014	1.0637	0.0153	2.0536	0.0400
education level	1.0127	0.9998	1.0258	0.0065	1.9369	0.0527
parental income	0.9900	0.9765	1.0037	0.0070	-1.4260	0.1538
country	1.4084	1.3405	1.4797	0.0252	13.5888	<0.0001
region Sjælland	0.8276	0.7990	0.8573	0.0179	-10.5342	<0.0001
region Syddanmark	0.9349	0.9076	0.9631	0.0151	-4.4406	<0.0001
region Midtjylland	0.7396	0.7170	0.7630	0.0158	-19.0094	<0.0001
region Nordjylland	0.7003	0.6721	0.7297	0.0209	-16.9806	<0.0001
mother with disorder	1.3807	1.3371	1.4258	0.0163	19.7127	<0.0001
father with disorder	1.2904	1.2479	1.3343	0.0170	14.9262	<0.0001

11. Respiratory - lower	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3809	1.2198	1.5632	0.0632	5.1000
paternal age	1.0049	0.9747	1.0359	0.0155	0.3159	0.7520
maternal age	0.9151	0.8833	0.9479	0.0180	-4.9272	<0.0001
gestation length	0.9419	0.9187	0.9657	0.0127	-4.7041	<0.0001
maternal bleeding	1.1484	1.0565	1.2483	0.0425	3.2534	0.0011
fetal oxygen deprivation	0.8564	0.4855	1.5107	0.2895	-0.5350	0.5926
pregnancy oedema	1.1677	0.9686	1.4077	0.0953	1.6264	0.1038
apgar5 score	1.1110	1.0132	1.2182	0.0470	2.2398	0.0251
birth weight	0.9841	0.9613	1.0074	0.0119	-1.3362	0.1814
preexisting hypertension	1.1838	0.6862	2.0424	0.2782	0.6066	0.5440
preexisting diabetes	1.3914	0.9908	1.9540	0.1732	1.9066	0.0565
previous induced abortion	1.0042	0.9466	1.0653	0.0301	0.1414	0.8875
previous spontaneous abortion	1.1371	1.0687	1.2098	0.0316	4.0604	<0.0001
education level	0.9608	0.9353	0.9870	0.0137	-2.9082	0.0036
parental income	0.9273	0.9010	0.9544	0.0146	-5.1420	<0.0001
country	1.0764	0.9687	1.1960	0.0537	1.3689	0.1710
region Sjælland	0.7781	0.7242	0.8360	0.0366	-6.8495	<0.0001
region Syddanmark	0.7139	0.6698	0.7609	0.0325	-10.3531	<0.0001
region Midtjylland	0.6391	0.5989	0.6821	0.0331	-13.4845	<0.0001
region Nordjylland	0.6543	0.6017	0.7115	0.0427	-9.9259	<0.0001
mother with disorder	1.5992	1.4573	1.7548	0.0473	9.9064	<0.0001
father with disorder	1.3706	1.2502	1.5025	0.0468	6.7224	<0.0001

12. Respiratory - chronic lower	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3345	1.2440	1.4316	0.0358	8.0575
paternal age	0.9974	0.9802	1.0149	0.0088	-0.2869	0.7741
maternal age	0.9741	0.9547	0.9939	0.0102	-2.5555	0.0106
gestation length	0.9676	0.9543	0.9812	0.0071	-4.6231	<0.0001
maternal bleeding	1.1185	1.0664	1.1731	0.0243	4.6080	<0.0001
fetal oxygen deprivation	0.9566	0.6893	1.3275	0.1671	-0.2651	0.7908
pregnancy oedema	1.1406	1.0184	1.2774	0.0577	2.2765	0.0228
apgar5 score	1.0680	1.0139	1.1250	0.0265	2.4821	0.0130
birth weight	0.9779	0.9650	0.9910	0.0067	-3.2862	0.0010
preexisting hypertension	0.8525	0.5991	1.2130	0.1799	-0.8865	0.3753
preexisting diabetes	0.9282	0.7345	1.1730	0.1194	-0.6235	0.5329
previous induced abortion	1.0202	0.9870	1.0546	0.0168	1.1869	0.2352
previous spontaneous abortion	1.0575	1.0204	1.0959	0.0182	3.0718	0.0021
education level	1.0246	1.0088	1.0406	0.0079	3.0751	0.0021
parental income	0.9407	0.9253	0.9565	0.0084	-7.2144	<0.0001
country	0.9506	0.8916	1.0134	0.0326	-1.5516	0.1207
region Sjælland	0.8152	0.7815	0.8504	0.0215	-9.4759	<0.0001
region Syddanmark	0.9580	0.9246	0.9926	0.0180	-2.3672	0.0179
region Midtjylland	0.7450	0.7176	0.7734	0.0191	-15.4054	<0.0001
region Nordjylland	0.8530	0.8146	0.8932	0.0234	-6.7624	<0.0001
mother with disorder	1.9907	1.9012	2.0844	0.0234	29.3286	<0.0001
father with disorder	1.7636	1.6746	1.8572	0.0264	21.4886	<0.0001

13. Respiratory - asthma	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3467	1.2554	1.4447	0.0358	8.3104
paternal age	1.0065	0.9890	1.0243	0.0089	0.7311	0.4646
maternal age	0.9749	0.9553	0.9948	0.0103	-2.4610	0.0138
gestation length	0.9631	0.9497	0.9767	0.0071	-5.2622	<0.0001
maternal bleeding	1.1258	1.0733	1.1809	0.0243	4.8678	<0.0001
fetal oxygen deprivation	0.9913	0.7175	1.3696	0.1649	-0.0523	0.9582
pregnancy oedema	1.1248	1.0027	1.2618	0.0586	2.0062	0.0448
apgar5 score	1.0684	1.0141	1.1256	0.0266	2.4863	0.0129
birth weight	0.9759	0.9630	0.9890	0.0068	-3.5757	0.0003
preexisting hypertension	0.8542	0.6004	1.2155	0.1799	-0.8751	0.3814
preexisting diabetes	0.9348	0.7397	1.1813	0.1194	-0.5645	0.5724
previous induced abortion	1.0223	0.9888	1.0569	0.0169	1.3022	0.1928
previous spontaneous abortion	1.0612	1.0238	1.1000	0.0183	3.2489	0.0011
education level	1.0173	1.0016	1.0333	0.0079	2.1715	0.0298
parental income	0.9348	0.9193	0.9505	0.0084	-7.9282	<0.0001
country	0.9293	0.8713	0.9912	0.0328	-2.2287	0.0258
region Sjælland	0.8159	0.7820	0.8513	0.0216	-9.3841	<0.0001
region Syddanmark	0.9553	0.9218	0.9900	0.0182	-2.5087	0.0121
region Midtjylland	0.7483	0.7207	0.7770	0.0191	-15.1170	<0.0001
region Nordjylland	0.8505	0.8120	0.8908	0.0236	-6.8525	<0.0001
mother with disorder	2.1944	2.0867	2.3076	0.0256	30.6122	<0.0001
father with disorder	2.0570	1.9343	2.1875	0.0313	22.9828	<0.0001

14. Respiratory - influenza	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4457	1.1971	1.7459	0.0962	3.8297
paternal age	1.0206	0.9732	1.0703	0.0242	0.8427	0.3993
maternal age	0.9085	0.8594	0.9603	0.0283	-3.3877	0.0007
gestation length	0.9203	0.8844	0.9576	0.0202	-4.0983	<0.0001
maternal bleeding	1.0844	0.9476	1.2410	0.0688	1.1780	0.2387
fetal oxygen deprivation	1.9236	0.9968	3.7120	0.3353	1.9506	0.0510
pregnancy oedema	1.4361	1.0835	1.9034	0.1437	2.5183	0.0117
apgar5 score	1.0914	0.9421	1.2645	0.0750	1.1661	0.2435
birth weight	0.9711	0.9352	1.0085	0.0192	-1.5197	0.1285
preexisting hypertension	2.7574	1.5588	4.8775	0.2909	3.4855	0.0004
preexisting diabetes	1.1812	0.6671	2.0915	0.2914	0.5714	0.5676
previous induced abortion	1.0048	0.9144	1.1042	0.0481	0.1007	0.9197
previous spontaneous abortion	1.0645	0.9619	1.1782	0.0517	1.2095	0.2264
education level	0.9554	0.9159	0.9967	0.0215	-2.1097	0.0348
parental income	0.8900	0.8503	0.9317	0.0233	-4.9894	<0.0001
country	1.8900	1.6574	2.1553	0.0670	9.4994	<0.0001
region Sjælland	0.6863	0.6130	0.7685	0.0576	-6.5237	<0.0001
region Syddanmark	0.5597	0.5044	0.6210	0.0530	-10.9338	<0.0001
region Midtjylland	0.5139	0.4622	0.5714	0.0541	-12.3020	<0.0001
region Nordjylland	0.4872	0.4214	0.5633	0.0739	-9.7174	<0.0001
mother with disorder	2.5245	1.9578	3.2551	0.1296	7.1403	<0.0001
father with disorder	1.7947	1.2649	2.5463	0.1784	3.2768	0.0010

15. Respiratory - pneumonia	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.3240	1.1608	1.5101	0.0671	4.1832
paternal age	1.0006	0.9691	1.0331	0.0163	0.0393	0.9686
maternal age	0.9206	0.8871	0.9553	0.0188	-4.3808	<0.0001
gestation length	0.9410	0.9168	0.9658	0.0132	-4.5762	<0.0001
maternal bleeding	1.1810	1.0836	1.2872	0.0439	3.7884	0.0001
fetal oxygen deprivation	0.7919	0.4253	1.4744	0.3171	-0.7355	0.4619
pregnancy oedema	1.1764	0.9672	1.4309	0.0998	1.6268	0.1037
apgar5 score	1.1410	1.0377	1.2546	0.0484	2.7253	0.0064
birth weight	0.9932	0.9691	1.0180	0.0125	-0.5366	0.5914
preexisting hypertension	1.3055	0.7566	2.2526	0.2783	0.9580	0.3380
preexisting diabetes	1.3517	0.9472	1.9291	0.1814	1.6611	0.0966
previous induced abortion	1.0011	0.9410	1.0650	0.0315	0.0359	0.9713
previous spontaneous abortion	1.1282	1.0571	1.2041	0.0332	3.6339	0.0002
education level	0.9571	0.9305	0.9846	0.0144	-3.0354	0.0024
parental income	0.9415	0.9135	0.9703	0.0153	-3.9167	<0.0001
country	1.0843	0.9713	1.2104	0.0561	1.4422	0.1492
region Sjælland	0.7564	0.7015	0.8156	0.0384	-7.2614	<0.0001
region Syddanmark	0.7169	0.6709	0.7661	0.0338	-9.8329	<0.0001
region Midtjylland	0.6266	0.5853	0.6709	0.0348	-13.4182	<0.0001
region Nordjylland	0.6103	0.5579	0.6675	0.0457	-10.7932	<0.0001
mother with disorder	1.6197	1.4629	1.7933	0.0519	9.2838	<0.0001
father with disorder	1.3583	1.2287	1.5017	0.0511	5.9842	<0.0001

16. Respiratory - COPD	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	0.8602	0.5235	1.4136	0.2534	-0.5940
paternal age	0.9531	0.8638	1.0517	0.0502	-0.9549	0.3396
maternal age	0.9586	0.8563	1.0731	0.0575	-0.7335	0.4632
gestation length	1.0362	0.9553	1.1240	0.0415	0.8584	0.3906
maternal bleeding	1.2130	0.9290	1.5839	0.1360	1.4194	0.1557
fetal oxygen deprivation	0.6738	0.0944	4.8088	1.0026	-0.3937	0.6937
pregnancy oedema	1.6544	1.0316	2.6531	0.2409	2.0893	0.0366
apgar5 score	1.3064	0.9802	1.7412	0.1465	1.8236	0.0682
birth weight	0.8751	0.8105	0.9447	0.0390	-3.4140	0.0006
preexisting hypertension	0.0000	0.0000	Inf	708.9937	-0.0183	0.9853
preexisting diabetes	1.1172	0.2772	4.5027	0.7111	0.1559	0.8760
previous induced abortion	1.1376	0.9438	1.3713	0.0952	1.3536	0.1758
previous spontaneous abortion	1.0150	0.8227	1.2522	0.1071	0.1394	0.8890
education level	0.9960	0.9125	1.0870	0.0446	-0.0892	0.9288
parental income	0.8047	0.7336	0.8826	0.0471	-4.6047	<0.0001
country	1.1794	0.8448	1.6463	0.1701	0.9696	0.3322
region Sjælland	0.8507	0.6770	1.0691	0.1165	-1.3863	0.1656
region Syddanmark	0.7234	0.5873	0.8910	0.1063	-3.0445	0.0023
region Midtjylland	0.5806	0.4647	0.7254	0.1136	-4.7842	<0.0001
region Nordjylland	0.7352	0.5635	0.9593	0.1357	-2.2654	0.0234
mother with disorder	1.9447	1.3673	2.7659	0.1797	3.7008	0.0002
father with disorder	1.8048	1.2858	2.5331	0.1729	3.4137	0.0006

17. Digestive - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1473	1.0954	1.2016	0.0236	5.8203
paternal age	0.9842	0.9736	0.9949	0.0055	-2.8773	0.0040
maternal age	0.9152	0.9039	0.9267	0.0063	-13.9125	<0.0001
gestation length	0.9817	0.9733	0.9903	0.0044	-4.1507	<0.0001
maternal bleeding	1.0632	1.0316	1.0958	0.0153	3.9837	<0.0001
fetal oxygen deprivation	1.0666	0.9005	1.2635	0.0864	0.7471	0.4549
pregnancy oedema	1.1464	1.0762	1.2212	0.0322	4.2373	<0.0001
apgar5 score	1.0548	1.0205	1.0902	0.0168	3.1642	0.0015
birth weight	0.9811	0.9732	0.9891	0.0041	-4.5845	<0.0001
preexisting hypertension	1.0167	0.8247	1.2535	0.1068	0.1557	0.8761
preexisting diabetes	1.1361	0.9917	1.3014	0.0693	1.8407	0.0656
previous induced abortion	1.0330	1.0120	1.0544	0.0104	3.1031	0.0019
previous spontaneous abortion	1.0464	1.0236	1.0697	0.0112	4.0339	<0.0001
education level	0.9596	0.9506	0.9687	0.0048	-8.5606	<0.0001
parental income	0.9845	0.9746	0.9944	0.0051	-3.0356	0.0024
country	0.8444	0.8089	0.8814	0.0218	-7.7226	<0.0001
region Sjælland	0.9640	0.9395	0.9891	0.0131	-2.7911	0.0052
region Syddanmark	1.0301	1.0074	1.0533	0.0113	2.6106	0.0090
region Midtjylland	0.8758	0.8559	0.8961	0.0117	-11.3160	<0.0001
region Nordjylland	0.9154	0.8896	0.9420	0.0145	-6.0592	<0.0001
mother with disorder	1.2999	1.2773	1.3229	0.0089	29.3263	<0.0001
father with disorder	1.1919	1.1713	1.2130	0.0089	19.6794	<0.0001

18. Endocrine - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4219	1.3340	1.5156	0.0325	10.8107
paternal age	0.9523	0.9373	0.9676	0.0081	-6.0194	<0.0001
maternal age	0.8700	0.8541	0.8862	0.0094	-14.7928	<0.0001
gestation length	0.9850	0.9721	0.9980	0.0067	-2.2535	0.0242
maternal bleeding	1.0539	1.0065	1.1035	0.0234	2.2385	0.0251
fetal oxygen deprivation	1.1634	0.9113	1.4852	0.1245	1.2150	0.2243
pregnancy oedema	1.2464	1.1468	1.3547	0.0424	5.1848	<0.0001
apgar5 score	1.1561	1.1010	1.2140	0.0249	5.8204	<0.0001
birth weight	1.0364	1.0238	1.0492	0.0062	5.7184	<0.0001
preexisting hypertension	1.0717	0.7967	1.4415	0.1512	0.4579	0.6469
preexisting diabetes	1.5356	1.3089	1.8015	0.0814	5.2640	<0.0001
previous induced abortion	1.0237	0.9921	1.0563	0.0159	1.4695	0.1416
previous spontaneous abortion	1.0572	1.0224	1.0932	0.0170	3.2597	0.0011
education level	0.8435	0.8317	0.8555	0.0071	-23.6601	<0.0001
parental income	0.8854	0.8720	0.8989	0.0077	-15.7053	<0.0001
country	0.8546	0.8060	0.9062	0.0298	-5.2544	<0.0001
region Sjælland	1.2495	1.2038	1.2968	0.0189	11.7352	<0.0001
region Syddanmark	1.1639	1.1254	1.2038	0.0171	8.8387	<0.0001
region Midtjylland	0.8184	0.7890	0.8488	0.0186	-10.7530	<0.0001
region Nordjylland	0.8643	0.8260	0.9043	0.0231	-6.3058	<0.0001
mother with disorder	1.6494	1.6028	1.6975	0.0146	34.1846	<0.0001
father with disorder	1.5019	1.4520	1.5535	0.0172	23.6047	<0.0001

19. Endocrine - obesity	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.4791	1.3682	1.5989	0.0397	9.8496
paternal age	0.9309	0.9127	0.9495	0.0100	-7.1037	<0.0001
maternal age	0.8191	0.8003	0.8383	0.0118	-16.8246	<0.0001
gestation length	1.0006	0.9842	1.0172	0.0084	0.0716	0.9428
maternal bleeding	1.0597	1.0001	1.1229	0.0295	1.9663	0.0492
fetal oxygen deprivation	1.1808	0.8714	1.6001	0.1550	1.0724	0.2834
pregnancy oedema	1.2806	1.1614	1.4121	0.0498	4.9627	<0.0001
apgar5 score	1.1922	1.1222	1.2666	0.0308	5.6922	<0.0001
birth weight	1.0761	1.0596	1.0928	0.0078	9.3232	<0.0001
preexisting hypertension	1.1605	0.8149	1.6527	0.1803	0.8254	0.4091
preexisting diabetes	1.6440	1.3460	2.0080	0.1020	4.8717	<0.0001
previous induced abortion	1.0239	0.9843	1.0652	0.0201	1.1774	0.2390
previous spontaneous abortion	1.0744	1.0298	1.1210	0.0216	3.3165	0.0009
education level	0.7633	0.7497	0.7771	0.0091	-29.4817	<0.0001
parental income	0.8559	0.8397	0.8725	0.0097	-15.8830	<0.0001
country	0.6170	0.5696	0.6684	0.0407	-11.8338	<0.0001
region Sjælland	1.4695	1.4031	1.5391	0.0235	16.3228	<0.0001
region Syddanmark	1.2905	1.2364	1.3470	0.0218	11.6744	<0.0001
region Midtjylland	0.7888	0.7517	0.8277	0.0245	-9.6629	<0.0001
region Nordjylland	0.8477	0.7992	0.8991	0.0300	-5.4979	<0.0001
mother with disorder	2.3217	2.2148	2.4338	0.0240	35.0183	<0.0001
father with disorder	1.9865	1.8466	2.1370	0.0372	18.4222	<0.0001

20. Genitourinary - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2301	1.1444	1.3223	0.0368	5.6202
paternal age	0.9673	0.9512	0.9837	0.0085	-3.8680	0.0001
maternal age	0.8871	0.8699	0.9047	0.0100	-11.9583	<0.0001
gestation length	0.9828	0.9693	0.9965	0.0070	-2.4554	0.0140
maternal bleeding	1.1235	1.0723	1.1770	0.0237	4.9003	<0.0001
fetal oxygen deprivation	0.8370	0.6085	1.1514	0.1626	-1.0930	0.2743
pregnancy oedema	1.1196	1.0103	1.2407	0.0524	2.1562	0.0310
apgar5 score	1.0349	0.9809	1.0919	0.0273	1.2571	0.2087
birth weight	0.9589	0.9465	0.9714	0.0066	-6.3134	<0.0001
preexisting hypertension	1.1440	0.8416	1.5549	0.1565	0.8592	0.3902
preexisting diabetes	1.1792	0.9542	1.4573	0.1080	1.5260	0.1270
previous induced abortion	1.1282	1.0932	1.1642	0.0160	7.5174	<0.0001
previous spontaneous abortion	1.0498	1.0135	1.0873	0.0179	2.7116	0.0066
education level	0.9235	0.9099	0.9374	0.0075	-10.4747	<0.0001
parental income	0.9292	0.9146	0.9439	0.0080	-9.1300	<0.0001
country	0.8827	0.8307	0.9380	0.0309	-4.0235	<0.0001
region Sjælland	0.7110	0.6832	0.7400	0.0203	-16.7614	<0.0001
region Syddanmark	0.6689	0.6458	0.6928	0.0179	-22.4353	<0.0001
region Midtjylland	0.6183	0.5966	0.6408	0.0182	-26.3803	<0.0001
region Nordjylland	0.6184	0.5904	0.6476	0.0235	-20.3667	<0.0001
mother with disorder	1.3248	1.2829	1.3680	0.0163	17.1603	<0.0001
father with disorder	1.2897	1.2329	1.3492	0.0229	11.0648	<0.0001

21. Genitourinary - kidney infection	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.2517	1.0408	1.5053	0.0941	2.3857	0.0170
paternal age	0.9927	0.9511	1.0361	0.0218	-0.3329	0.7391
maternal age	0.8495	0.8078	0.8932	0.0256	-6.3609	<0.0001
gestation length	1.0194	0.9844	1.0556	0.0178	1.0801	0.2800
maternal bleeding	1.1398	1.0127	1.2828	0.0603	2.1708	0.0299
fetal oxygen deprivation	0.7703	0.3199	1.8550	0.4483	-0.5817	0.5607
pregnancy oedema	0.8616	0.6325	1.1736	0.1577	-0.9445	0.3448
apgar5 score	1.1320	0.9920	1.2918	0.0673	1.8413	0.0655
birth weight	0.9890	0.9569	1.0221	0.0168	-0.6558	0.5119
preexisting hypertension	0.5109	0.1645	1.5865	0.5781	-1.1615	0.2454
preexisting diabetes	1.4170	0.8768	2.2900	0.2449	1.4232	0.1546
previous induced abortion	1.1697	1.0813	1.2652	0.0400	3.9136	<0.0001
previous spontaneous abortion	1.1309	1.0370	1.2332	0.0441	2.7842	0.0053
education level	0.9301	0.8953	0.9662	0.0194	-3.7233	0.0001
parental income	0.9641	0.9260	1.0037	0.0205	-1.7768	0.0756
country	0.6556	0.5516	0.7791	0.0880	-4.7930	<0.0001
region Sjælland	0.6920	0.6252	0.7658	0.0517	-7.1162	<0.0001
region Syddanmark	0.6402	0.5852	0.7005	0.0458	-9.7202	<0.0001
region Midtjylland	0.6340	0.5798	0.6933	0.0456	-9.9903	<0.0001
region Nordjylland	0.6342	0.5651	0.7117	0.0588	-7.7415	<0.0001
mother with disorder	1.5184	1.2248	1.8824	0.1096	3.8105	0.0001
father with disorder	1.6859	1.1081	2.5650	0.2141	2.4395	0.0147

22. Musculoskeletal - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
surgery	1.1867	1.1471	1.2276	0.0173	9.8858	<0.0001
paternal age	0.9732	0.9653	0.9811	0.0041	-6.5519	<0.0001
maternal age	0.9367	0.9280	0.9455	0.0047	-13.6810	<0.0001
gestation length	1.0003	0.9939	1.0068	0.0032	0.1048	0.9165
maternal bleeding	1.0873	1.0633	1.1119	0.0113	7.3536	<0.0001
fetal oxygen deprivation	1.1636	1.0340	1.3094	0.0602	2.5153	0.0118
pregnancy oedema	1.0897	1.0357	1.1465	0.0259	3.3127	0.0009
apgar5 score	1.0198	0.9945	1.0456	0.0127	1.5350	0.1247
birth weight	0.9899	0.9839	0.9960	0.0031	-3.2379	0.0012
preexisting hypertension	1.0509	0.9043	1.2212	0.0766	0.6481	0.5169
preexisting diabetes	1.0042	0.9042	1.1153	0.0535	0.0796	0.9365
previous induced abortion	1.0476	1.0318	1.0637	0.0077	5.9926	<0.0001
previous spontaneous abortion	1.0306	1.0137	1.0478	0.0084	3.5788	0.0003
education level	0.9542	0.9474	0.9610	0.0036	-12.9474	<0.0001
parental income	0.9930	0.9855	1.0006	0.0038	-1.7933	0.0729
country	0.8545	0.8281	0.8818	0.0160	-9.8085	<0.0001
region Sjælland	0.8453	0.8286	0.8623	0.0101	-16.5041	<0.0001
region Syddanmark	0.8856	0.8706	0.9009	0.0087	-13.9288	<0.0001
region Midtjylland	1.0379	1.0211	1.0550	0.0083	4.4759	<0.0001
region Nordjylland	0.8323	0.8141	0.8508	0.0112	-16.3189	<0.0001
mother with disorder	1.3418	1.3256	1.3581	0.0061	47.6482	<0.0001
father with disorder	1.2296	1.2147	1.2447	0.0062	33.1873	<0.0001

23. Neoplasms - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1818	1.1042	1.2648	0.0346	4.8240
paternal age	0.9866	0.9709	1.0026	0.0081	-1.6423	0.1005
maternal age	0.9691	0.9516	0.9870	0.0093	-3.3521	0.0008
gestation length	1.0002	0.9876	1.0129	0.0064	0.0365	0.9708
maternal bleeding	1.0718	1.0256	1.1202	0.0224	3.0862	0.0020
fetal oxygen deprivation	1.1266	0.8933	1.4207	0.1183	1.0071	0.3138
pregnancy oedema	1.0020	0.9080	1.1057	0.0502	0.0413	0.9669
apgar5 score	0.9880	0.9400	1.0385	0.0254	-0.4717	0.6370
birth weight	1.0187	1.0067	1.0309	0.0060	3.0684	0.0021
preexisting hypertension	0.9176	0.6673	1.2618	0.1624	-0.5287	0.5969
preexisting diabetes	0.9963	0.8065	1.2309	0.1078	-0.0337	0.9730
previous induced abortion	0.9947	0.9650	1.0254	0.0154	-0.3395	0.7341
previous spontaneous abortion	1.0285	0.9959	1.0621	0.0164	1.7130	0.0867
education level	1.0055	0.9918	1.0195	0.0070	0.7907	0.4290
parental income	1.0278	1.0129	1.0430	0.0074	3.6747	0.0002
country	0.9095	0.8506	0.9724	0.0341	-2.7797	0.0054
region Sjælland	1.1015	1.0605	1.1441	0.0193	5.0010	<0.0001
region Syddanmark	1.1813	1.1429	1.2209	0.0168	9.8893	<0.0001
region Midtjylland	1.1349	1.0980	1.1729	0.0168	7.5155	<0.0001
region Nordjylland	0.9290	0.8892	0.9707	0.0223	-3.2886	0.0010
mother with disorder	1.1866	1.1578	1.2160	0.0125	13.6780	<0.0001
father with disorder	1.1509	1.1137	1.1894	0.0167	8.3812	<0.0001

24. Neoplasms - benign	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.1734	1.0906	1.2625	0.0373	4.2819
paternal age	0.9808	0.9640	0.9979	0.0088	-2.1957	0.0281
maternal age	0.9758	0.9568	0.9952	0.0100	-2.4287	0.0151
gestation length	0.9985	0.9850	1.0121	0.0069	-0.2138	0.8306
maternal bleeding	1.0624	1.0131	1.1142	0.0242	2.4983	0.0124
fetal oxygen deprivation	1.1722	0.9147	1.5021	0.1265	1.2557	0.2092
pregnancy oedema	1.0070	0.9046	1.1211	0.0547	0.1290	0.8973
apgar5 score	0.9802	0.9290	1.0344	0.0274	-0.7258	0.4679
birth weight	1.0169	1.0040	1.0300	0.0065	2.5787	0.0099
preexisting hypertension	0.8518	0.5986	1.2119	0.1799	-0.8915	0.3726
preexisting diabetes	1.0204	0.8161	1.2757	0.1139	0.1773	0.8592
previous induced abortion	1.0020	0.9700	1.0351	0.0165	0.1249	0.9005
previous spontaneous abortion	1.0476	1.0122	1.0842	0.0175	2.6509	0.0080
education level	1.0106	0.9957	1.0257	0.0075	1.4002	0.1614
parental income	1.0247	1.0086	1.0411	0.0080	3.0291	0.0024
country	0.9149	0.8521	0.9823	0.0362	-2.4504	0.0142
region Sjælland	1.0861	1.0425	1.1315	0.0208	3.9553	<0.0001
region Syddanmark	1.1912	1.1497	1.2342	0.0180	9.6718	<0.0001
region Midtjylland	1.1392	1.0995	1.1803	0.0180	7.2084	<0.0001
region Nordjylland	0.8886	0.8471	0.9322	0.0244	-4.8336	<0.0001
mother with disorder	1.2197	1.1850	1.2554	0.0147	13.5030	<0.0001
father with disorder	1.1915	1.1412	1.2441	0.0220	7.9609	<0.0001

25. Circulatory - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2572	1.1423	1.3836	0.0488	4.6819
paternal age	0.9735	0.9508	0.9967	0.0120	-2.2269	0.0259
maternal age	0.9472	0.9221	0.9730	0.0137	-3.9523	<0.0001
gestation length	0.9678	0.9499	0.9862	0.0095	-3.4116	0.0006
maternal bleeding	1.1376	1.0682	1.2115	0.0321	4.0168	<0.0001
fetal oxygen deprivation	0.8318	0.5656	1.2233	0.1968	-0.9356	0.3494
pregnancy oedema	1.0047	0.8718	1.1578	0.0723	0.0652	0.9479
apgar5 score	1.2107	1.1315	1.2955	0.0345	5.5366	<0.0001
birth weight	0.9762	0.9592	0.9935	0.0089	-2.6791	0.0073
preexisting hypertension	1.1746	0.8191	1.6845	0.1839	0.8753	0.3813
preexisting diabetes	0.8929	0.6535	1.2200	0.1592	-0.7109	0.4771
previous induced abortion	0.9872	0.9437	1.0327	0.0230	-0.5581	0.5767
previous spontaneous abortion	1.0385	0.9900	1.0894	0.0244	1.5498	0.1211
education level	0.9725	0.9528	0.9925	0.0104	-2.6777	0.0074
parental income	0.9822	0.9612	1.0038	0.0110	-1.6158	0.1061
country	0.8739	0.7953	0.9603	0.0480	-2.8020	0.0050
region Sjælland	1.0000	0.9468	1.0561	0.0278	0.0005	0.9995
region Syddanmark	0.9184	0.8744	0.9647	0.0250	-3.3894	0.0007
region Midtjylland	0.9612	0.9159	1.0087	0.0246	-1.6048	0.1085
region Nordjylland	0.7713	0.7224	0.8235	0.0334	-7.7712	<0.0001
mother with disorder	1.5048	1.4406	1.5718	0.0222	18.3929	<0.0001
father with disorder	1.3268	1.2735	1.3823	0.0209	13.5241	<0.0001

26. Nervous System - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2465	1.1038	1.4077	0.0620	3.5523
paternal age	0.9775	0.9492	1.0067	0.0149	-1.5108	0.1308
maternal age	0.8869	0.8572	0.9177	0.0173	-6.8959	<0.0001
gestation length	0.9914	0.9681	1.0154	0.0121	-0.7013	0.4830
maternal bleeding	1.1226	1.0355	1.2169	0.0411	2.8090	0.0049
fetal oxygen deprivation	1.5720	1.0966	2.2535	0.1837	2.4620	0.0138
pregnancy oedema	1.2383	1.0597	1.4469	0.0794	2.6910	0.0071
apgar5 score	1.0651	0.9719	1.1673	0.0467	1.3514	0.1765
birth weight	0.9760	0.9545	0.9979	0.0113	-2.1384	0.0324
preexisting hypertension	1.0660	0.6046	1.8796	0.2893	0.2211	0.8249
preexisting diabetes	1.4444	1.0338	2.0180	0.1706	2.1548	0.0311
previous induced abortion	1.0577	0.9999	1.1189	0.0286	1.9576	0.0502
previous spontaneous abortion	1.0778	1.0151	1.1445	0.0306	2.4496	0.0142
education level	0.9068	0.8837	0.9304	0.0131	-7.4494	<0.0001
parental income	0.9420	0.9164	0.9682	0.0140	-4.2622	<0.0001
country	0.7021	0.6177	0.7980	0.0653	-5.4111	<0.0001
region Sjælland	1.4244	1.3326	1.5225	0.0339	10.4064	<0.0001
region Syddanmark	1.1577	1.0875	1.2325	0.0319	4.5873	<0.0001
region Midtjylland	0.9924	0.9303	1.0586	0.0329	-0.2293	0.8186
region Nordjylland	0.7426	0.6793	0.8118	0.0454	-6.5443	<0.0001
mother with disorder	1.5513	1.4474	1.6626	0.0353	12.4189	<0.0001
father with disorder	1.4043	1.2898	1.5290	0.0433	7.8257	<0.0001

27. Eye/adnexa - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2321	1.1481	1.3224	0.0360	5.7893
paternal age	1.0041	0.9889	1.0196	0.0077	0.5377	0.5907
maternal age	0.9744	0.9575	0.9916	0.0089	-2.9049	0.0036
gestation length	0.9555	0.9438	0.9674	0.0062	-7.2176	<0.0001
maternal bleeding	1.0886	1.0435	1.1357	0.0216	3.9319	<0.0001
fetal oxygen deprivation	1.1691	0.9159	1.4923	0.1245	1.2547	0.2095
pregnancy oedema	1.0748	0.9753	1.1843	0.0495	1.4569	0.1451
apgar5 score	1.0598	1.0116	1.1104	0.0237	2.4470	0.0144
birth weight	0.9579	0.9469	0.9691	0.0059	-7.2482	<0.0001
preexisting hypertension	0.9791	0.7281	1.3165	0.1510	-0.1396	0.8889
preexisting diabetes	1.0886	0.8970	1.3213	0.0988	0.8599	0.3898
previous induced abortion	1.0299	1.0004	1.0602	0.0148	1.9901	0.0465
previous spontaneous abortion	1.0697	1.0370	1.1035	0.0158	4.2557	<0.0001
education level	0.9576	0.9449	0.9704	0.0067	-6.3771	<0.0001
parental income	0.9588	0.9453	0.9726	0.0072	-5.7941	<0.0001
country	1.0282	0.9741	1.0852	0.0275	1.0099	0.3125
region Sjælland	0.7668	0.7399	0.7948	0.0182	-14.5350	<0.0001
region Syddanmark	0.7503	0.7273	0.7741	0.0159	-18.0320	<0.0001
region Midtjylland	0.6379	0.6176	0.6589	0.0165	-27.2123	<0.0001
region Nordjylland	0.6678	0.6406	0.6962	0.0212	-19.0308	<0.0001
mother with disorder	1.3216	1.2740	1.3711	0.0187	14.8854	<0.0001
father with disorder	1.2350	1.1895	1.2823	0.0191	11.0076	<0.0001

28. Mental - all	exp(coef)	LCL	UCL	SE	Z	Pr(Z)
	surgery	1.2207	1.1617	1.2827	0.0252	7.8881
paternal age	1.0128	1.0013	1.0245	0.0058	2.1899	0.0285
maternal age	0.9186	0.9063	0.9310	0.0068	-12.3982	<0.0001
gestation length	0.9816	0.9722	0.9911	0.0049	-3.7726	0.0001
maternal bleeding	1.1343	1.0988	1.1711	0.0162	7.7552	<0.0001
fetal oxygen deprivation	1.1764	0.9759	1.4180	0.0953	1.7046	0.0882
pregnancy oedema	1.0797	1.0019	1.1635	0.0381	2.0109	0.0443
apgar5 score	1.0604	1.0224	1.0998	0.0186	3.1532	0.0016
birth weight	0.9713	0.9625	0.9802	0.0046	-6.2651	<0.0001
preexisting hypertension	1.1697	0.9451	1.4477	0.1087	1.4410	0.1495
preexisting diabetes	1.0996	0.9505	1.2721	0.0743	1.2782	0.2011
previous induced abortion	1.1278	1.1035	1.1525	0.0110	10.8546	<0.0001
previous spontaneous abortion	1.0700	1.0443	1.0964	0.0124	5.4555	<0.0001
education level	0.9604	0.9502	0.9706	0.0054	-7.4472	<0.0001
parental income	0.7861	0.7772	0.7951	0.0058	-41.2779	<0.0001
country	0.4837	0.4589	0.5098	0.0267	-27.1019	<0.0001
region Sjælland	0.8449	0.8214	0.8691	0.0144	-11.6955	<0.0001
region Syddanmark	0.9181	0.8963	0.9404	0.0122	-6.9658	<0.0001
region Midtjylland	0.7672	0.7480	0.7869	0.0129	-20.5154	<0.0001
region Nordjylland	0.5602	0.5402	0.5809	0.0185	-31.2647	<0.0001
mother with disorder	2.0486	2.0005	2.0979	0.0121	59.1078	<0.0001
father with disorder	1.6284	1.5831	1.6749	0.0143	33.9213	<0.0001

Table S8. Relative risks (RR), absolute risk difference (ARD), number needed to treat (NNT(B/H) or benefit/harm) for conditions surgeries aim to treat

Conditions	adenoidectomy				tonsillectomy				adenotonsillectomy				CR
	RR	ER	ARD	NNT(B/H)	RR	ER	ARD	NNT(B/H)	RR	ER	ARD	NNT(B/H)	
Sleep disorders	0.30(0.15-0.60)*	1.05	-0.083 %	-1209 (B)	0.24(0.07-0.75)	-	-	-	0.46(0.28-0.77)	-	-	-	0.119
Abnormal breathing	1.04(0.61-1.78)	-	-	-	0.70(0.26-1.89)	-	-	-	0.59(0.30-1.14)	-	-	-	0.045
Sinusitis	1.54(1.14-2.08)	-	-	-	1.03(0.63-1.69)	-	-	-	1.68(1.32-2.14)***	0.479	+0.116%	865 (H)	0.169
Chronic sinusitis	2.25(1.69-3.00)***	1.47	+0.11%	905 (H)	1.25(0.75-2.08)	-	-	-	1.17(0.84-1.63)	-	-	-	0.088
Otitis media	4.84(4.48-5.23)***	57.75	+19.495%	5 (H)	2.22(1.94-2.54)***	10.263	+6.217%	16 (H)	2.06(1.88-2.25)***	27.513	+5.385%	19 (H)	5.073
Tonsillitis	0.21(0.16-0.29)***	5.86	-1.815 %	-55 (B)	0.09(0.05-0.17)***	16.487	-2.102 %	-48 (B)	0.09(0.06-0.14)***	14.685	-2.092 %	-48 (B)	2.321
Chronic tonsillitis	0.54(0.39-0.74)**	92.36	-0.299 %	-334 (B)	0.20(0.11-0.38)***	80.486	-0.52 %	-192 (B)	0.11(0.06-0.19)***	98.315	-0.582 %	-172 (B)	0.657

Footnotes:

- CR - Control Risk (i.e. event rate (%) in the control group)
- ER - Experimental Risk (i.e. event rate (%) in the case (surgery) group)
- ARD - Absolute Risk Difference (a.k.a. absolute risk reduction/increase) [ARD=100 X CR X (1-RR)]
- NNT(B/H) - Number Needed to Treat-Benefit or Harm [NNT=100/ARD]
- RR exclusion: Relative risks (RR) are presented only for analyses with sufficient power for hypothesis testing (see methods)
 - > i.e. there was insufficient power to test obstructive sleep apnea in any analysis (hence, there are no results here)
- ER, ARD and NNT exclusion: these values are presented only when Bonferroni corrected p-value (21 tests; $\alpha=0.05/21=0.00238$) for relative risks (RR) were significant
 - > Bonferroni corrected p-values are given in RR column (* $p<0.05$, ** $p<0.01$, *** $p<0.001$)

Supplementary Methods

Study sample: While we had access to health data on individuals older than 30 years, we focused on individuals born and living between 1979-2009 for two important reasons. Firstly, we needed to code whether surgery was performed for adenoidectomy, tonsillectomy or adenotonsillectomy between birth and nine years of age. For any individual born before 1979 (who had no record of these surgeries after 1979), we could not determine that. Secondly, for individuals born before 1979, we had no prior disease history or information on most of their covariates. Therefore, including those individuals would have introduced both bias in censoring in the Cox regression model between those born before or after 1979, as well as introducing large amounts of missing information for those born before 1979 (i.e. they would have had to be removed before analysis anyway). Electronic health data were not available before 1977-78 in Denmark, and data after 2009 were not available at the time of request permission to use the data.

Propensity analysis considerations: Utilizing Danish medical history data collected from birth, we matched the health of cases and controls prior to surgery (see ‘Study sample obtained from the Danish health registries’ in the main paper and ‘Testing for biases in early general health between cases and controls’ below). This approach is comparable (and perhaps more accurate) than propensity analysis for at least some purposes of our study as we discuss below.

Technically, the aim of propensity analysis is to reduce baseline differences between control and treatment individuals for their outcome variables (i.e. disease) that may have existed before the predictor variable (i.e. surgery) was measured. For example, under a normal scenario for observational studies, propensity analysis would utilize predictor variables measured at/before baseline that correlate with disease outcomes – these are used to provide a propensity score and/or match cases and controls to reduce this baseline variation, or in other words reduce disease covariation that existed for control and treatment individuals at baseline. This reduces potential disease confounding/correlation that existed before any main predictor variable was measured.

The reason for using the propensity approach is that in typical observational studies the entire disease life histories of individuals is rarely if ever available, so the ‘disease covariates’ that form the propensity score/matching variables serve as a proxy for pre-existing indicators of disease outcomes. In our study we had the complete disease histories (main disease, general health) of all individuals measured from birth. Thus, rather than having to use proxy ‘disease covariates’ to control for potential pre-existing disease indications/biases, we used actual indications of pre-existing disease measured from birth to match health of cases and controls prior to surgery. This should provide more accurate and direct controls for pre-existing disease confounding.

Obviously, our approach cannot be done for the majority of health studies because complete health records from birth are rarely available for the individuals who are chosen to enter those studies. This is one of the major advantages of working with the public health databases of Denmark and other Nordic countries.

On a technical note, propensity analysis would also limit the number of diseases we could investigate as the matching process typically involves selecting smaller sample sizes than we use in our study. As noted in our text on statistical power analyses, there were some diseases that only just passed (some did not) the power threshold even with the massive sample sizes we had access to. One of the aims of our study was to provide a survey of risks for a wide range of diseases, which was only possible with the large sample sizes we had. Propensity analysis would have greatly limited our ability to evaluate broad impacts. Also note that propensity analysis has received some criticisms because it can only account for observed (not hidden) covariation,¹ meaning biases may still be present after matching,² and some have argued it may increase bias in some instances.³

Power analyses: To reduce the possibility of encountering false negative results, we carried out power analyses with the powerSurvEpi package in R v 3.4.1, which checks whether sample sizes are large enough to test the null hypothesis of no association between predictor and subsequent disease. The powerSurvEpi algorithm calculates the minimum sample size needed to detect an effect of a given size with a given degree of confidence based on the risk ratio, which we derived from the actual relative risks for outcome diseases, the variance of the main covariate of interest (surgery), the proportion of subjects who were diagnosed with the disease, the postulated power, and the type I error rate. Most diseases within each surgery group met these thresholds. Of the 84 disease x surgery combinations examined (28 disease groups x 3 surgery groups = 84), six (~7%) did not and were excluded from the results reported. Power analyses performed for general health (see ‘Testing for biases in early general health before surgery’ in the main paper) utilized a conservative postulated ratio of $\exp(0.05)$ or 1.05 given relative risks were not available for this general health category.

Converting RR to AR and NNT: To interpret risks based on their actual effect size in the population⁴ and provide statistics that are more clinically useful,⁵ we used risks derived from Cox regressions and prevalence of disease in control samples (control risk, CR) to estimate absolute risk difference (ARD, also known as absolute risk reduction or increase) and number needed to treat (NNT). $ARD = 100 \times CR \times (1 - RR)$ and $NNT = 100 / ARD$. Conversion between RR and ARD is mainly modified by the control risk, i.e. if RR for a disease is large but its prevalence in the population is low, it will generally have a small ARD and thus low impact. Conversion between ARD and NNT implies they are inversely linked, i.e. if ARD is large, very few patients need to be treated to observe benefit or harm in one of them. If ARD is small, many patients need to be treated to observe benefit or harm in one of them. Positive and negative NNT values are used to indicate whether treatment results in harm (NNT-harm) or benefit (NNT-benefit) respectively, with numbers closer to zero indicating harm or benefit more often than larger values. For example, an NNT-benefit value of 5 suggests that treatment in 5 patients would need to be performed for one of them to benefit. An NNT-harm value of 100 suggests that treatment in 100 patients would need to be performed for one of them to experience an adverse effect.

Testing for biases in early general health between cases and controls: In order to test whether there were significant differences between (surgery) cases and controls regarding diseases diagnosed in the first 9 years of life, i.e. testing whether individuals who underwent surgery in the first 9 years of life represented a generally ‘more sickly’

sample of individuals that could bias estimation of incident disease risk beyond 9 years of age, we tested two null hypotheses. *Null hypothesis 1*: There is no difference between case and control age distributions for diseases diagnosed in the first 9 years of life. This sought to compare age at diagnosis distributions for any disease (potentially multiple diagnoses for each individual) to see whether individuals who underwent the three target surgeries also tended to have more disease diagnoses overall in the first 9 years of life. *Null hypothesis 2*: There is no difference in age at first disease diagnosed in the first 9 years of life between cases and controls. This sought to compare age at diagnosis distributions for the first disease diagnosed to see whether individuals who underwent the three target surgeries received their first disease diagnosis earlier in life within the first 9 years. General health: In order to test for differences in general health, we pooled ICD diagnoses that capture almost all of the main disease groups described by ICD10, i.e. the same broad set defined in Hollegaard et al. ⁶ These capture a much wider range of diseases and should be more representative of general health in a population.

For null hypothesis 1, we randomly sampled from the control individuals (those who did not undergo surgery during 1979-2009) the same number of individuals who had undergone each specific surgery. For example, there were 20,238 (out of 1,668,632) individuals who underwent adenoidectomy between birth and 9 years of age in our sample. We randomly sampled the same number (n=20,238) from the control sample (n=1,648,394 without surgery) and tested whether distributions for general health diseases diagnosed at any age within the first 9 years between surgery individuals and controls were significantly different with a Kolmogorov-Smirnov test. We repeated this 1000 times, each time randomly sampling 20,238 individuals (with replacement) from the control sample and comparing this to the surgery group's distribution for age at any general health disease diagnosis within the first 9 years. The permuted p value was based on the number of times (out of 1000) that the two distributions were the same. Permuted p was >0.05 in all cases supporting the null hypothesis of no difference between case and control age distributions for general health diseases diagnosed in the first 9 years of life. *For null hypothesis 2*, the same permutation procedure was carried out as for null hypothesis 1, except only the age at first diagnosis was considered. For all three surgery groups, permuted p was > 0.05, supporting the null hypothesis. These results show that general health in the first 9 years of life was not significantly different between the surgery groups versus control individuals. In other words, individuals who underwent these surgeries in the first 9 years of life were not sicker prior to surgery, compared to the general population.

The Danish National Patient Registry (DNPR) ⁷ – comprehensive and accurate records of health and disease: There are three key pieces of information that provide confidence that our target disease groups (to assess disease risk following surgery) and definition of general health above (to test for pre-existing differences in health between cases and controls) were comprehensive and accurate based on DNPR data:

- 1) The Danish health care system is free for all residents so there are no financial concerns about GP or hospital visits, meaning there is minimal bias in health care access based on socioeconomic differences.
- 2) Healthcare professionals are paid per diagnosis, so it is in their interest to rigorously document all patient diagnoses. Therefore patient medical history in the DNPR is extremely comprehensive.

- 3) The DNPR includes inpatient and outpatient admissions, primary and where relevant secondary diagnoses. For any inpatient or outpatient visit, further information is available including for example duration, date and location of visit and age of participant. This ensures that the medical history of patients is very complete, diagnoses can be tracked and validated, and disease co-morbidity can be accounted for.

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Supplementary Results and Discussion

Consistent impact of covariates on risk of many diseases: Some covariates showed very consistent effects on risk for many diseases. Accounting for these effects is therefore likely to be important in any longitudinal population-based study examining these types of disease risks.

The most consistent effect in Fig. 2 in terms of disease relative risk magnitude (e.g. RR ranged from 1.10 to 3.71) and direction of effect (i.e. risk was increased for every disease) was whether either parent had previously been diagnosed within the same disease group (i.e. had received an ICD diagnosis code for the same disease). The largest relative risks were found for asthma (RR ranged from 2.05 to 2.19 across all analyses), allergies (RR ranged from 1.10 to 3.26), obesity (RR ranged from 1.97 to 2.34), and mental disorders (RR ranged from 1.60 to 2.04): a family history of these diseases greatly increased risk of these in their children. As would be expected for polygenic diseases, these effects were largely consistent regardless of whether that disease was diagnosed on the maternal or paternal side. The exceptions were urticaria/angioedema, influenza, and kidney infections, where risk was significantly increased only if the mother (and not father) had a history of these diseases.

Maternal age at birth of individuals in our sample was consistently significantly associated with decreased risk for 16 of the 28 disease groups in Fig. 2. This effect was largest in endocrine (RR 0.79 to 0.87 across all analyses), kidney (RR 0.84 to 0.89), and nervous system (RR 0.87 to 0.89) diseases. The exception was allergic rhinitis, where older mothers conferred increased risk (RR 1.05 to 1.07). Maternal bleeding during pregnancy had many widespread and consistent effects, with 16 out of 28 diseases examined showing significantly elevated risks if this complication occurred (RR 1.02 to 1.27).

Other covariates such as parental education, income and country of origin also showed many significant effects, but risk direction varied considerably depending on the disease considered. For example, mental disorders were less frequent in Danish nationals than in immigrants (RR 0.48 to 0.49), yet risk of influenza was much higher in Danes (RR 1.89 to 2.06). Higher parental education and income mostly decreased the risk of many diseases (RR 0.76 to 0.99), but increased the risk of a few, including some allergic diseases (RR 1.04-1.06). Both effects could result from differences in the microbiota children are exposed to. Many complex patterns highlighted regional differences in diseases. For example, obesity risk was higher in Sjælland (RR 1.46 to 1.48) and Syddanmark (RR 1.29 to 1.39) but lower in Midtjylland (RR 0.78 to 0.84) and Nordjylland (RR 0.84 to 0.92) relative to Hovedstaden.

Other important and interesting associations of covariates with disease risk: That risk for several diseases was sensitive to many covariates suggests that these diseases may have particularly complex causation. For example, risk of skin (group: all), digestive (group: all) endocrine (group: all, obesity) and mental diseases (group: all) were influenced by many (up to 15 out of 21) covariates. There were also very specific disease risk-covariate interactions. For example, the relative risk of influenza (RR 2.75 to 3.12) (but no other disease) was significantly and massively increased by maternal

hypertension prior to pregnancy; oedema during pregnancy greatly increased relative risk for urticaria/angiodema (RR 1.51 to 1.56); and diabetes prior to pregnancy greatly increased risk for all endocrine (RR 1.44 to 1.66) and autoimmune diseases (RR 1.47 to 1.55).

Increased risk of otitis media associated with adenoidectomy: Increased long-term risk of otitis media associated with adenoidectomy was unexpected and therefore deserves further consideration here. Here we 1) speculate over possible reasons why some conditions such as otitis media were increased after adenoidectomy given the lack of evidence in previous studies, 2) provide evidence that the assumed beneficial effects of these surgeries is not always supported, and 3) discuss a possible mechanistic link between adenoidectomy increasing subsequent otitis media.

1) why is adenoidectomy associated with increased long-term otitis media risk? Perhaps the simplest explanation is that no previous study has looked at long-term associations between these surgeries and the conditions they aim to treat. Studies commonly investigate short-term health impacts after these surgeries (i.e. typically within 1-3 years post-operation). No previous study has looked at the long-term risks of otitis media after adenoidectomy, so we have no comparison for our study. Perhaps disease risks associated with these surgeries only begin to become apparent longer-term? Of the few studies that have investigated longer-term health risks (i.e. >3 years) after these surgeries, disease risks tended to increase. We only found one study that had a similar follow-up time to our study (i.e. 20 years post-surgery) - Johansson et al 2003¹ investigated chronic disease 20 years after tonsillectomy and found disease prevalence was greater in the tonsillectomy group compared to the control group with a massive relative risk of 9.41 (95% CI 1.13-78.14). In a Taiwanese study² they found that tonsillectomy was significantly associated with all cancer types and breast cancer, but importantly, this was only apparent when follow-up was greater than 3 years. In a study by Mészáros et al 2010³, they found that tonsillectomy before age 7 was associated with a 1.5-fold increase in mortality.

2) variable health effects of these surgeries. It is perhaps often assumed that these surgeries always have positive short-term effects for the conditions they aim to treat, but this is not the case. The literature for improvement of otitis media after adenoidectomy is quite variable with some studies demonstrating an improvement after surgery⁴, others show limited short-term efficacy⁵, while others show no reduction in risk following surgery⁶.

3) mechanistic link between adenoidectomy and subsequent otitis media. There is a potential indirect mechanistic link that might explain the association between these surgeries otitis media, which would possibly take years to develop. A recent study by Chung et al 2016⁷ found that tonsillectomy was significantly associated with the subsequent development of rhinosinusitis, which is an infection by bacteria or viruses of the sinuses. According to Corren & Rachelefsky 2007⁸ rhinosinusitis is a predisposing factor for otitis media, where the infection may spread from sinuses to Eustachian tubes and middle ear where local inflammation and infection (otitis media) develops.

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