

Supplementary Table. Variables harmonized as of May 2016

Variables	Descriptions and details	Data source Denmark (missing, n (%))	Data source Norway (missing, n (%))
<i>Maternal Characteristics</i>			
Maternal age	Age at birth	Key_DNBC (85 (0.0))	MBRN (0 (0.0))
Previous live births	0,1,2,3,4 or more	DNBC_all_reproductive_ history (86 (0.1))	MBRN (5476 (4.8))
Previous stillbirths	Stillbirth after 28 weeks completed gestational age (0,1,2).	DNBC_all_reproductive_ history	MBRN
Previous spontaneous abortions	Spontaneous abortions during pregnancy weeks 5-16 (range 0-10)	Int1 (768 (0.8))	Q1 (3431 (3.4))
Menstrual cycle, regularity	Regular menstrual cycle. No, yes.	Int1(415(0.5))	Q1 (416(0.5))
Menarche	Age (in years) at first menstrual period	Int1 (4066 (4.5))	Q1 (1324 (1.2))
Pre pregnancy body mass index	Calculated from pre-pregnancy weight and height	Int1 (1512 (1.7))	Q1 (2807 (2.7))
Weight gain in pregnancy	Reported directly in Demark, calculated in Norway	Int3 (685 (1.0)))	Q1 and Q4 (23 602 (23))
Maternal occupational status	Employed, unemployed, student, receiving pension/benefits	Int1 (40 (0.0))	Q1 (2101 (2.0))
Marital status	Spouse/partner,single	Int1 (65 (0.1))	Q1 (1561 (1.5))
Planned pregnancy	No, yes	Int1 (53 (0.1))	Q1 (1221 (1.2))
<i>Paternal characteristics</i>			
Paternal occupational status	Employed, unemployed, student, receiving pension/benefits	Int1 (1912 (2.1))	Q1 (2735 (2.7))
Paternal age	≤19,20-24,25-29,30-34,35-39,40-44,45-49,≥50	MBRD (1927 (1.9))	MBRN (552 (0.5))
Paternal BMI	Calculated from maternal report of father's weight and height	Int3 (3142 (4.7))	Q1 (4708 (4.6))
<i>Exposures during pregnancy</i>			
In vitro fertilization	No, yes	Danish IVF registry	MBRN and Q1
Maternal smoking up till Int1/Q1*	No, yes, stopped	Int1 (60 (0.1))	Q1 (653 (0.6))
Cigarettes daily at Int1/Q1*	Range 0-50	Int1 (137 (0.1))	Q1 (815 (0.8))
Maternal alcohol intake before pregnancy*	in units per week, range 0-65	Int1 (443 (0.4))	Q1 (2557 (2.5))
Binge drinking up til Int1/Q1*	Number of episodes of binge drinking (five or more drinks	Int1 (371 (0.4))	Q1 (6298 (6.2))

Daily cups of coffee at Int1/Q1*	in one sitting). 0, 1-2, ≥3 Range 0-69	Int1 (60 (0.0))	Q1 (4 (0.0))
Daily cups of tea at Int1/Q1*	Range 0-48	Int1 (59 (0.0))	Q1 (12 (0.0))
Daily intake of caffeinated soft drinks at Int1/Q1*	<1 L, ≥1 L	Int1 (75 (0.1))	Q1 (10 (0.0))
Daily intake of caffeine at Int1/Q1*	Calculated total from caffeinated beverages (in mg)	Int1 (129 (0.1))	Q1 (15 (0.0))
Illicit drug use in pregnancy	No, yes. If not reported in MoBa, recorded as no, therefore no missing values	Int2 (56 (0.1))	Q1 and Q3 (0 (0.0))
Folate/folic acid intake weeks 0-30	No, yes.	Int1 and Int2 (9181 (9.5))	Q1 and Q3 (3204 (3.1))
Multivitamin intake up till Int1/Q1*	No, yes.	Int1 (2751 (3.0))	Q1 (1673 (1.6))
Physical activity up till Int1/Q1	No exercise, once a week, twice a week, ≥3 times per week (aerobics, jogging, cycling, etc).	Int1 (57 (0.1))	Q1 (3588 (3.5))
<i>Maternal medical conditions during pregnancy</i>			
Nausea during pregnancy weeks 0-12*	No, nausea, vomiting.	Int2 (104 (0.1))	Q1 (493 (0.5))
Hyperemesis	Hospitalized for hyperemesis gravidarum. No, yes.	LPR (0 (0.0))	Q3 (0 (0.0))
Urinary tract infections up till Int1/Q1*	No, yes.	Int1 526 (0.6))	Q1 (0 (0.0))
Rheumatoid arthritis	Diagnosed before birth.	LPR (0 (0.0))	MBRN (0 (0.0))
Joint problems in pregnancy	No, yes.	Int1(194 (0.2))	Q1 (0 (0.0))
Thyroid disorders	Hyper- or hypothyroidism. No, yes	Int1 (183 (0.2))	Q1 (0 (0.0))
Ovarian cysts	Before or during pregnancy. No, yes.	Int1 (1835(0.2))	Q1 (0 (0.0))
Epilepsy in pregnancy	No, yes.	Int2 (109 (0.1))	Q1(0 (0.0))
Diabetes	Diagnosed before delivery. No, type I, type II, other/ unspecified, gestational	LPR (0 (0.0))	MBRN (0 (0.0))
Thrombosis	Diagnosed during pregnancy. No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))
Vaginal bleeding up till Int1/Q1*	No, yes.	Int1 (110 (0.1))	Q1 (869 (0.8))
Respiratory infection during weeks 0-12*	No, yes.	Int1 and Int2 (1776 (1.8))	Q1 (1502 (1.4))
Fever during weeks 0-12*	No, yes.	Int1 and Int2 (1800 (1.9))	Q1 (2614 (2.5))
Preeclampsia	No, light, serious, unspecified.	MBRD (138 (0.1))	MBRN (0 (0.0))
Eclampsia	No, yes.	MBRD (138 (0.1))	MBRN (0 (0.0))
HELLP syndrome	No, yes.	MBRD (138 (0.1))	MBRN (0 (0.0))
Chorioamnionitis	No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))
Sepsis during labor	No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))

<i>Labour and delivery</i>			
Prolonged rupture of membranes	Rupture of membranes ≥24 hours before delivery. No, yes.	Int3 (574 (0.8))	MBRN (0 (0.0))
Fever in labor	No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))
Dystocia	No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))
Placental abruption	No, yes.	MBRD (139 (0.1))	MBRN (0 (0.0))
Presentation	Cephalic, breech, transverse, unspecified.	MBRD (563 (0.6))	MBRN (1151 (1.0))
Caesarean section	No, elective, emergency, unspecified.	MBRD (446 (0.5))	MBRN (0 (0.0))
Forceps	No, yes.	MBRD (446 (0.5))	MBRN (0 (0.0))
Vacuum	No, yes.	MBRD (446 (0.5))	MBRN (0 (0.0))
<i>Birth outcomes</i>			
Birth year	Year of birth. Range 1996-2009.	Key_DNBC (85 (0.1))	MBRN (0 (0.0))
Outcome	The child's condition at delivery. Live born, stillborn, spontaneous abortion, induced abortion, other.	Key_DNBC (0 (0.0))	MBRN (0 (0.0))
Sex	Male, female.	Key_DNBC (5693 (5.5))	MBRN (213 (0.2))
Plurality	Number of fetuses in pregnancy. Range 0 (abortion) – 4.	Key_DNBC (0 (0.0))	MBRN (0 (0.0))
Birth order (for plural births)	Range 0 (abortion) – 3.	Key_DNBC (0 (0.0))	MBRN (0 (0.0))
Apgar-score	At five minutes.	MBRD (895 (0.9))	MBRN (488 (0.4))
Birth weight	In grams.	MBRD (473 (0.5))	MBRN (261 (0.2))
Gestational age , last menstrual period	In days.	Key_DNBC (85 (0.0))	MBRN (6054 (5.3))
Gestational age, ultrasound (or last menstrual period)	In days. Based on last menstrual period if ultrasound is missing.	Key_DNBC (87 (0.0))	MBRN (518 (0.4))
Birth defects, all	Any birth defect. No, yes.	MBRD (1 (0.0))	MBRN (0 (0.0))
Birth defects, serious	Serious birth defect, as defined by the birth registries. No, yes.	MBRD (139 (0.1))	MBRN (0 (0.0))
Specific birth defects	According to ICD-10 (Q00, Q01, Q02, Q03, Q04, Q05, Q06, Q07, Q1, Q2, Q30-34, Q35-37, Q38-Q45, Q5, Q60-64, Q65-79, Q8, Q9). No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))
Infant death	Death during first year of life. No, yes.	Key_DNBC (5693 (5.6))	MBRN (993 (0.8))
<i>Clinical condition of newborn</i>			
Transfer to NICU	No, yes.	MBRD (138 (0.1))	MBRN (0 (0.0))
Ventilator treatment	CPAP or respirator treatment. No, yes.	MBRD (138 (0.1))	MBRN (0 (0.0))
Neonatal encephalopathy	No, cerebral irritability, cerebral depression, cerebral coma	LPR (0 (0.0))	MBRN (0 (0.0))
Intracranial bleeding	No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))
Icterus	No, yes	Int3 (40 (0.1))	MBRN (0 (0.0))

Neonatal seizures	No, yes.	LPR (0 (0.0))	MBRN (0 (0.0))
<i>Cerebral palsy</i>			
CP	No, yes.	CPRD (0 (0.0))	CPRN (0 (0.0))
CP subtype	No, spastic unilateral, spastic bilateral, dyskinetic, ataxic, not classified.	CPRD (0 (0.0))	CPRN (0 (0.0))
Gross motor function	Gross motor function classification scale level at age 5 years. Range I-V,	CPRD (1 (0.5))	CPRN (11 (4.5))
Age at CP diagnosis	In completed months. Range 0-93.	CPRD (0 (0.0))	CPRN (0 (0.0))
CP with epilepsy	No, yes, not CP.	CPRD (1 (0.5))	CPRN (32 (13))
CP with visual impairment	No, yes, not CP.	CPRD (10 (5.2))	CPRN (57 (23))
CP with mental impairment	No, yes, not CP.	CPRD (4 (2.1))	CPRN (86 (35))
<i>General</i>			
Response time*	Gestational age in days when mother answered Int1/Q1.	Key_DNBC and Int1	MBRN and Q1

Key_DNBC, data from the Medical Birth Registry of Denmark or the Danish Civil Registration System – cleaned by DNBC;
 DNBC_all_reproductive_history, data from the Medical Birth Registry of Denmark – cleaned by DNBC; LPR, The Danish Patient Registry; Int, DNBC Interview; Q, MoBa questionnaire; CPRD, CP Registry of Denmark; CPRN, CP registry of Norway; MBRD, Medical Birth Registry of Denmark; MBRN, Medical Birth Registry of Norway.

*similar variables also harmonized for later time points in pregnancy

For many variables, it was not possible to distinguish between missing and 0/no. Therefore, there are no missing values for many variables.