Maternal occupation during pregnancy, birth weight, and length of gestation: combined analysis of 13 European birth cohorts.

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SUPPLEMENTAL MATERIAL

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Supplemental material Figure 1 Combined adjusted[a] associations between employed and non-employed women and small for gestational age. Effect estimates (OR - 95%CI) and numbers (N) are presented across cohorts and for the total population (Overall) and represent the number of employed women with SGA babies

Supplemental material Figure 2 Combined adjusted[a] associations between nurses and small for gestational age. Effect estimates (OR - 95%CI) and numbers (N) are presented across cohorts and for the total population (Overall) and represent the number of nurses with SGA babies

Supplemental material Figure 3 Combined adjusted[a] associations between food industry workers and preterm delivery. Effect estimates (OR - 95%CI) and numbers (N) are presented across cohorts and for the total population (Overall) and represent the number of food industry workers with preterm deliveries

Supplemental material Table 1 Number of pregnant women in each cohort and in the total population with information on birth weight or length of gestation and occupational history available

Cohort	Total (A+B)	Non-employed (A)	Employed (B=C+D)	No ISCO-88 code (C)	Employed with ISCO-88 code (D)
ABCD	7792	2051	5741	376	5365
BAMSE	3883	347	3536	0	3536
DNBC	86 736	15 979	70 757	742	70015
Generation R	6444	1116	5328	121	5207
Generation XXI	7859	1789	6070	76	5994
INMA_Granada	498	265	233	13	220
INMA_new	2487	365	2122	0	2122
KANC	4253	509	3744	206	3538
MoBa	93 891	20 928	72 963	41 944	31019
NINFEA	2865	239	2626	122	2504
PÉLAGIE	3322	365	2957	39	2918
REPRO_PL	1176	178	998	2	996
RHEA	1111	203	908	30	878
Total	**222 317**	**44 334**	**177 983**	**43 671**	**134 312**

Supplemental material Table 2 List of the ISCO-88 codes included in each occupational sector

ISCO-88 code	ISCO-88 title
HEALTH	
2200	
222	HEALTH PROFESSIONALS (EXCEPT NURSING)
2221	Medical doctors
2222	Dentists
2223	Veterinarians
2224	Pharmacists
2229	Health professionals (except nursing) nec
223	NURSING AND MIDWIFERY PROFESSIONALS[b]
2230	Nursing and midwifery professionals[b]
313	OPTICAL AND ELECTRONIC EQUIPMENT OPERATORS
3133[a]	Medical equipment operators
322	MODERN HEALTH ASSOCIATE PROF (except nursing)
3221	Medical assistants
3222	Sanitarians
3225	Dental assistants
3226	Physiotherapists and related associate professionals
3227	Veterinary assistants
3228	Pharmaceutical assistants
3229	Modern health associate prof, (except nursing) nec
323	NURSING AND MIDWIFERY ASSOCIATE PROFESSIONALS[b]
3231	Nursing associate professionals[b]
3232	Midwifery associate professionals[b]
513	PERSONAL CARE AND RELATED WORKERS
5132[a]	Institution-based personal care workers
5139[a]	Personal care and related workers nec
324	TRADITIONAL MEDICINE PRACTITIONERS AND FAITH HEALERS
3241	Traditional medicine practitioners
3242	Faith healers
DAY-CARE	
233	PRIMARY AND PRE-PRIMARY EDUCATION TEACHING PROF,
2331	Primary education teaching professionals
2332	Pre-primary education teaching professionals
234	SPECIAL EDUCATION TEACHING PROFESSIONALS
2340	Special education teaching professionals
331	PRIMARY EDUCATION TEACHING ASSOCIATE PROFESSIONALS
3310	Primary education teaching associate professionals
332	PRE-PRIMARY EDUCATION TEACHING ASSOCIATE PROF,
3320	Pre-primary education teaching associate professionals
333	SPECIAL EDUCATION TEACHING ASSOCIATE PROFESSIONALS
3330	Special education teaching associate professionals
513	PERSONAL CARE AND RELATED WORKERS[c]
5131	Child-care workers[c]
5132[a]	Institution-based personal care workers[c]
5133	Home-based personal care workers[c]
5139[a]	Personal care and related workers nec[c]
5143	Undertakers and embalmers[c]
346	SOCIAL WORK ASSOCIATE PROFESSIONALS
3460	Social work associate professionals
INDUSTRY, COMMERCE AND HOME CLEANING	
1315	General managers of restaurants and hotels
1318	General managers in personal care, cleaning, related services
511	TRAVEL ATTENDANTS AND RELATED WORKERS
5111	Travel attendants and travel stewards
512	HOUSEKEEPING AND RESTAURANT SERVICES WORKERS[d]
5121	Housekeepers and related workers[d]
5122	Cooks[d]
5123	Waiters, waitresses and bartenders[d]
514	OTHER PERSONAL AND SERVICES WORKERS
5142	Companions and valets
5149	Other personal services workers not elsewhere classified
522	SHOP SALESPERSONS AND DEMONSTRATORS
5220	Shop salespersons and demonstrators

523	STALL AND MARKET SALESPERSONS
5230	Stall and market salespersons
911	STREET VENDORS AND RELATED WORKERS
9111	Street food vendors
912	SHOE CLEANING AND OTHER STREET ELEMENTARY OCCUPATIONS
9120	Shoe cleaning and other street services elementary occup,
913	DOMESTIC AND RELATED HELPERS, CLEANERS AND LAUNDERERS[e]
9131	Domestic helpers and cleaners[e]
9132	Helpers and cleaners in offices, hotels + other establishments[e]
9133	Hand-launderers and pressers[e]
	OTHERS
8264	Bleaching-, dyeing- and cleaning-machine operators
914	BUILDING CARETAKERS, WINDOW AND RELATED CLEANERS
9141	Building caretakers
9142	Vehicle, window and related cleaners
915	MESSENGERS, PORTERS, DOORKEEPERS AND RELATED WORKERS
9152	Doorkeepers, watchpersons and related workers
916	GARBAGE COLLECTORS AND RELATED LABOURERS
9161	Garbage collectors
9162	Sweepers and related labourers

AGRICULTURE AND GARDENING

131	GENERAL MANAGERS
1311	General managers in agriculture, hunting, forestry, fishing
221	LIFE SCIENCE PROFESSIONALS
2213	Agronomists and related professionals
321	LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROF
3212	Agronomy and forestry technicians
3213	Farming and forestry advisers
611	MARKET GARDENERS AND CROP GROWERS
6111	Field crop and vegetable growers
6112	Tree and shrub crop growers
6113	Gardeners, horticultural and nursery growers
6114	Mixed-crop growers
612	MARKET-ORIENTED ANIMAL PRODUCERS AND REL WORKERS
6121	Dairy and livestock producers
6122	Poultry producers
6123	Apiarists and sericulturists
6124	Mixed-animal producers
6129	Market-oriented animal producers and related workers nec
613	MARKET-ORIENTED CROP AND ANIMAL PRODUCERS
6130	Market-oriented crop and animal producers
614	FORESTRY AND RELATED WORKERS
6141	Forestry workers and loggers
615	FISHERY WORKERS, HUNTERS AND TRAPPERS
6151	Aquatic-life cultivation workers
6152	Inland and coastal waters fishery workers
621	SUBSISTENCE AGRICULTURAL AND FISHERY WORKERS
6210	Subsistence agricultural and fishery workers
833	AGRICULTURAL AND OTHER MOBILE-PLANT OPERATORS
8331	Motorised farm and forestry plant operators
921	AGRICULTURAL, FISHERY AND RELATED LABOURERS
9211	Farm-hands and labourers
9212	Forestry labourers
9213	Fishery, hunting and trapping labourers

ELECTRICITY/ELECTRONIC/OPTIC WORKERS

214	ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS
2143	Electrical engineers
2144	Electronics and telecommunications engineers
311	PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS
3111	Chemical and physical science technicians
3113	Electrical engineering technicians
3114	Electronics and telecommunications engineering technicians
3133[a]	Medical equipment operators
3139	Optical and electronic equipment operators nec
713	BUILDING FINISHERS AND RELATED TRADES WORKERS
7137[a]	Building and related electricians
724	ELECTRICAL AND ELECTRONIC EQUIP, MECHANICS AND FITTERS

7241	Electrical mechanics and fitters
7242	Electronics fitters
7243	Electronics mechanics and servicers
7244	Telegraph and telephone installers and servicers
7245	Electrical line installers, repairers and cable jointers
731	PRECISION WORKERS IN METAL AND RELATED MATERIALS
7311	Precision-instrument makers and repairers
828	ASSEMBLERS
8282	Electrical-equipment assemblers
8283	Electronic-equipment assemblers

LABORATORY WORK AND CHEMICAL INDUSTRY

211	PHYSICISTS, CHEMISTS AND RELATED PROFESSIONALS
2113	Chemists
2114	Geologists and geophysicists
214	ARCHITECTS, ENGINEERS AND RELATED PROFESSIONALS
2146	Chemical engineers
2147	Mining engineers, metallurgists and related professionals
221	LIFE SCIENCE PROFESSIONALS
2211	Biologists, botanists, zoologists and related professionals
2212	Pharmacologists, pathologists and related professionals
311	PHYSICAL AND ENGINEERING SCIENCE TECHNICIANS
3111	Chemical and physical science technicians
3116	Chemical engineering technicians
3117	Mining and metallurgical technicians
3119	Physical and engineering science technicians nec
321	LIFE SCIENCE TECHNICIANS AND RELATED ASSOCIATE PROF
3211	Life science technicians
815	CHEMICAL-PROCESSING-PLANT OPERATORS
8151	Crushing-, grinding- and chemical-mixing-machinery op,
8152	Chemical-heat-treating-plant operators
8153	Chemical-filtering- and separating-equipment operators
8154	Chemical-still and reactor operators (exc, petroleum, nat gas)
8155	Petroleum- and natural-gas-refining-plant operators
8159	Chemical-processing-plant operators nec
816	POWER-PRODUCTION AND RELATED PLANT OPERATORS
8163	Incinerator, water-treatment and related plant operators
822	CHEMICAL-PRODUCTS MACHINE OPERATORS
8221	Pharmaceutical- and toiletry-products machine operators
8222	Ammunition- and explosive-products machine operators
8223	Metal finishing-, plating- and coating-machine operators
8224	Photographic-products machine operators
8229	Chemical-products machine operators nec
823	RUBBER- AND PLASTIC-PRODUCTS MACHINE OPERATORS
8231	Rubber-products machine operators
8232	Plastic-products machine operators

FOOD INDUSTRY

741	FOOD PROCESSING AND RELATED TRADES WORKERS
7411	Butchers, fishmongers and related food preparers
7412	Bakers, pastry-cooks and confectionery makers
7413	Dairy-products makers
7414	Fruit, vegetable and related preservers
7415	Food and beverage tasters and graders
827	FOOD AND RELATED PRODUCTS MACHINE OPERATORS
8271	Meat- and fish-processing-machine operators
8272	Dairy-products machine operators
8273	Grain- and spice-milling-machine operators
8274	Baked-goods, cereal and chocolate-products machine op,
8275	Fruit-, vegetable- and nut-processing-machine operators
8276	Sugar production machine operators
8277	Tea-, coffee-, and cocoa-processing-machine operators
8278	Brewers, wine and other beverage machine operators

PRINTING AND PANTING

734	PRINTING AND RELATED TRADES WORKERS
7341	Compositors, typesetters and related workers
7342	Stereotypers and electrotypers
7343	Printing engravers and etchers
7344	Photographic and related workers

7345	Bookbinders and related workers
7346	Silk-screen, block and textile printers
825	PRINTING-, BINDING- AND PAPER-PRODUCTS MACHINE OPERATORS
8251	Printing-machine operators
8252	Bookbinding-machine operators
8253	Paper-products machine operators
	OTHERS
2452	Sculptors, painters and related artists
3118	Draughtspersons
3471	Decorators and commercial designers
7141[a]	Painters and related workers
7142[a]	Varnishers and related painters
7324	Glass, ceramics and related decorative painters

HAIRDRESSERS

5141	Hairdressers and cosmeticians

CONSTRUCTION WORKERS

7111	Miners and quarry workers
7112	Shotfirers and blasters
7113	Stone splitters, cutters and carvers
7121	Builders, traditional materials
7122	Bricklayers and stonemasons
7123	Concrete placers, concrete finishers and related workers
7124	Carpenters and joiners
7129	Building frame and related trades workers not elsewhere classified
7131	Roofers
7132	Floor layers and tile setters
7133	Plasterers
7134	Insulation workers
7135	Glaziers
7136	Plumbers and pipe fitters
7137[a]	Building and related electricians
7141[a]	Painters and related workers
7142[a]	Varnishers and related painters
7143	Building structure cleaners
9312	Construction and maintenance labourers: roads, dams and similar constructions
9313	Building construction labourers

Abbreviations: ISCO-88: International Standard Classification of Occupations of 1988; nec: not elsewhere classified.
[a]ISCO-88 codes classified in more than one occupational sector.
Subsectors: [b]Nurses; [c]Personal care and related workers; [d]Housekeeping and restaurant services; and [e]Domestic and related helpers.

Supplemental material Table 3a Source of information/time of collection of covariates in each cohort

Covariates	ABCD	BAMSE	DNBC	Generation R	Generation XXI	INMA_Granada
Birth weight	Registries	Self-reported questionnaire/ Birth	Registries	Clinical records	Clinical records	Clinical records
LMP-based length of gestation	Unknown	NA	Registries and maternal information	NA	Clinical records	Clinical records
US-based length of gestation	Unknown	NA	Registries	Clinical records	Clinical records	NA
Maternal-based length of gestation	NA	Self-reported questionnaire /Birth	NA	NA	Clinical records	NA
Mode of delivery	Registries	The Swedish Medical Birth Register	Registries	Clinical records	Clinical records	Clinical records
Sex	Registries	Self-reported questionnaire/ Birth	Registries	Clinical records	Clinical records	Clinical records
Maternal age	Self reported questionnaire/1st trimester	Self-reported questionnaire/ Birth	Registries	Clinical records	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth
Maternal country of birth	Self reported questionnaire/1st trimester	Self-reported questionnaire/ 8 years	NA	Questionnaire/1st trimester	NA	Self-reported questionnaire by trained interviewers/Birth
Marital status	Self reported questionnaire/1st trimester	The Swedish Medical Birth Register	Self-reported cohabitation status	Questionnaire/end 1st trimester	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth
Maternal education	Self reported questionnaire/1st trimester	Self-reported questionnaire/ Birth	CATI /child 18 months	Questionnaire/end 1st trimester	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth
Maternal smoking during pregnancy	Self reported questionnaire/1st trimester	Self-reported questionnaire/ Birth	CATI /12th and 30th pregnancy weeks	Questionnaire/end 1st trimester	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth
Maternal BMI	Self reported questionnaire/ 1st trimester	The Swedish Medical Birth Register	CATI /12th pregnancy weeks	Physical examination/end 1st trimester	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth
Parity	Registries	The Swedish Medical Birth Register	CATI /12th pregnancy weeks	Questionnaire/end 1st trimester	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth

Maternal hypertension during pregnancy	Registries	The Swedish Medical Birth Register	CATI /30th pregnancy weeks	Physical examination/end 1st trimester	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth
Maternal diabetes	Registries	The Swedish Medical Birth Register	CATI /30th pregnancy weeks	Questionnaire/end 1st trimester	Self-reported questionnaire/Birth	Self-reported questionnaire by trained interviewers/Birth

Abbreviations: NA: not available; CATI: Computer Assisted Telephone Interview; LMP: last menstrual period; US: ultrasound
In ABCD there is no information on the exact method to estimate length of gestation; in 90% of cases LMP and US where used.

Supplemental material Table 3b Source of information/time of collection of covariates in each cohort

Covariates	INMA_new	KANC	MoBa	NINFEA	PELAGIE	REPRO_PL	RHEA
Birth weight	Clinical records	Clinical records	Medical Birth Registry	Self –reported /child 6 months	Clinical records	Clinical records	Clinical records
LMP-based length of gestation	Clinical records	NA	Medical Birth Registry	Self-reported/during pregnancy	Clinical records	Clinical records	Self-reported questionnaire/12th pregnancy weeks
US-based length of gestation	Clinical records	Clinical records	Medical Birth Registry	Self-reported/during pregnancy	Clinical records	Clinical records	Clinical records
Maternal-based length of gestation	Self-reported questionnaire by trained interviewers /12th pregnancy weeks	NA	NA	NA	Clinical records	Clinical records	NA
Mode of delivery	Clinical records	Clinical records	Medical Birth Registry	Self-reported/child 6 months	Clinical records	Clinical records	Clinical records
Sex	Clinical records	Clinical records	Medical Birth Registry	Self-reported/child 6 months	Clinical records	Clinical records	Clinical records
Maternal age	Self-reported questionnaire by trained interviewers /12th pregnancy weeks	Self-reported questionnaire/1st trimester	Medical Birth Registry	Self-reported/during pregnancy	Self-reported questionnaire/end 1st trimester	Interview by trained midwives/8-12 pregnancy weeks	Self-reported questionnaire/12th and 30th pregnancy weeks
Maternal country of birth	Self-reported questionnaire by trained interviewers /12th pregnancy weeks	Self-reported questionnaire/1st trimester	NA	Self-reported/during pregnancy	Self-reported questionnaire/end 1st trimester	Interview by trained midwives/8-12 pregnancy weeks	Self-reported questionnaire/12th pregnancy weeks
Marital status	Self-reported questionnaire by trained interviewers /12th pregnancy weeks	Self-reported questionnaire/1st trimester	Self- reported questionnaire/17th pregnancy weeks	Self-reported/during pregnancy	Self-reported questionnaire/end 1st trimester	Interview by trained midwives/8-12 pregnancy weeks	Self-reported questionnaire/12th and 30th pregnancy weeks
Maternal education	Self-reported questionnaire by trained interviewers /12th pregnancy weeks	Self-reported questionnaire/1st trimester	Self- reported questionnaire/17th pregnancy weeks	Self-reported/during pregnancy	Self-reported questionnaire/end 1st trimester	Interview by trained midwives/8-12 pregnancy weeks	Self-reported questionnaire/12th pregnancy weeks

Maternal smoking during pregnancy	Self-reported questionnaire by trained interviewers /12th and 32th pregnancy weeks	Self-reported questionnaire/Birth	Medical Birth Registry	Self-reported/during pregnancy for 1st and 2nd trimesters and at child 6 months for 3rd trimester	Self-reported questionnaire/end 1st trimester	Interview by trained midwives/8-12, 20-24, 30-34 pregnancy weeks and verified by cotinine levels in saliva	Self-reported questionnaire/12th and 30th pregnancy weeks
Maternal BMI	Measured/12th pregnancy weeks	Self-reported questionnaire/1st trimester	Self- reported questionnaire/17th pregnancy weeks	Self-reported/during pregnancy	Self-reported questionnaire/end 1st trimester	Interview by trained midwives/8-12 pregnancy weeks	Self-reported questionnaire/12th and 30th pregnancy weeks
Parity	Self-reported questionnaire by trained interviewers /12th pregnancy weeks	Self-reported questionnaire/1st trimester	Medical Birth Registry	Self-reported/during pregnancy	Self-reported questionnaire/end 1st trimester	Interview by trained midwives/8-12 pregnancy weeks	Self-reported questionnaire/12th pregnancy weeks
Maternal hypertension during pregnancy	Self-reported questionnaire by trained interviewers /32th pregnancy weeks	Self-reported questionnaire/1st trimester	Medical Birth Registry	Self-reported/during pregnancy for 1st and 2nd trimesters and at child 6 months for 3rd trimester	Clinical records	Information filled by gynecologist/8-12, 20-24 and 30-34 pregnancy weeks	Self-reported questionnaire/12th and 30th pregnancy weeks
Maternal diabetes	Clinical records	Self-reported questionnaire/1st trimester	Medical Birth Registry	Self-reported/during pregnancy for 1st and 2nd trimesters and at child 6 months for 3rd trimester	Clinical records	Information filled by gynecologist/8-12, 20-24 and 30-34 pregnancy weeks	Self-reported questionnaire/12th and 30th pregnancy weeks

Abbreviations: NA: not available; LMP: last menstrual period; US: ultrasound
In NINFEA cohort, birth weight reported for the mother at 6 months of the child has been validated against registry-based data in a large subset of study participants.

Supplemental material Table 4a Distribution of main characteristics of employees with ISCO-88 code in the total population and in each cohort

Covariates	Total	ABCD	BAMSE	DNBC	Generation R	Generation XXI	INMA_Granada
N	134 312	5365	3536	70 015	5207	5994	220
BIRTH OUTCOMES							
Birth weight (g), mean (SD)	3540 (563)	3452 (561)	3558 (537)	3590 (563)	3454 (545)	3193 (483)	3317 (469)
Missings, N (%)	562 (0.4)	25 (0.5)	0	371 (0.5)	10 (0.2)	106 (1.8)	1 (0.5)
Length of gestation (weeks), mean (SD)	39.8 (1.8)	39.8 (1.8)	39.9 (1.9)	40.0 (1.8)	39.9 (1.7)	38.8 (1.7)	39.3 (1.6)
Missings, N (%)	239 (0.2)	0	0	0	1 (0.0)	31 (0.5)	3 (1.3)
Small for gestational age (yes), N (%)	12 826 (9.6)	485 (9.0)	326 (9.2)	6896 (9.2)	425 (8.2)	537 (9.0)	18 (8.2)
Missings	1121 (0.8)	27 (0.5)	64 (1.8)	378 (0.5)	30 (0.6)	224 (3.7)	9 (4.1)
Term low birth weight (yes)[a], N (%)	1535 (1.1)	85 (1.6)	27 (0.8)	635 (0.9)	89 (1.7)	210 (3.5)	2 (2.3)
Preterm delivery (yes), N (%)	6311 (4.7)		172 (4.9)	3081 (4.4)	240 (4.6)	436 (7.3)	9 (4.1)
Missings	239 (0.2)	0	0	0	1 (0.0)	31 (0.5)	3 (1.4)
Mode of delivery, N (%)							
Vaginal	110 257 (82.1)	4679 (87.2)	2881 (81.5)	58 843 (84.0)	4141 (79.5)	3924 (48.8)	153 (69.6)
Caesarean section (no type specified)	3437 (2.6)	-	376 (10.6)	6 (0.0)	9 (0.2)	1135 (18.9)	39 (17.7)
Elective caesarean	7136 (5.3)	259 (4.8)	-	3996 (5.7)	230 (4.4)	319 (5.3)	27 (12.3)
Non-elective caesarean	10 991 (8.2)	427 (8.0)	-	6764 (9.7)	375 (7.2)	719 (12.0)	-
Missings	2491 (1.9)	0	279 (7.9)	406 (0.6)	452 (8.7)	897 (15.0)	1 (0.5)
CHILD CHARACTERISTICS							
Sex, N (%)							
Boy	68 762 (51.2)	2665 (49.7)	1806 (51.1)	35 893 (51.3)	2619 (50.3)	3084 (51.5)	220 (100)
Girl	65 541 (48.8)	2699 (50.3)	1730 (48.9)	34 122 (48.7)	2588 (49.7)	2910 (48.6)	-
Missings	9 (0.0)	1 (0)	0	0	0	0	0
MATERNAL CHARACTERISTICS							
Age, N (%)							
<25 years	12 237 (9.1)	387 (7.2)	231 (6.5)	5379 (7.7)	684 (13.1)	1030 (17.2)	20 (9.1)
25-29 years	46 581 (34.7)	1008 (18.8)	1117 (31.6)	26 172 (37.4)	1369 (26.3)	1910 (31.9)	66 (30.0)
30-34 years	52 817 (39.3)	2551 (47.6)	1465 (41.4)	27 579 (39.4)	2261 (43.4)	2058 (34.3)	93 (42.3)
≥35 years	22 551 (16.8)	1419 (26.5)	723 (20.5)	10 835 (15.5)	893 (17.2)	994 (16.6)	41 (18.6)
Missings	126 (0.1)	0	0	50 (0.1)	0	2 (0.0)	0
Country of birth, N (%)							
European	23 825 (17.7)	4604 (85.8)	2834 (80.2)	-	3646 (70.0)	-	-
Non-European	2493 (1.9)	761 (14.2)	146 (4.1)	-	1455 (27.9)	-	-

Covariates	Total	ABCD	BAMSE	DNBC	Generation R	Generation XXI	INMA_Granada
N	134 312	5365	3536	70 015	5207	5994	220
Not available	107 248 (79.9)	-	-	70 015 (100)	-	5994 (100)	220 (100)
Missings	746 (0.6)	0	556 (15.7)	0	106 (2.0)	0	0
Living with the father, N (%)	99 264 (73.9)	4784 (89.2)	3107 (87.8)	38 820 (55.5)	4518 (86.8)	5719 (95.4)	191 (86.8)
Missings	876 (0.7)	8 (0.2)	309 (8.7)	50 (0.1)	199 (3.8)	22 (0.4)	27 (12.3)
Education, N (%)							
Low	5845 (4.4)	619 (11.5)	1172 (33.1)	2 (0)	789 (15.2)	1209 (20.2)	104 (47.3)
Medium	39 720 (29.6)	2076 (38.7)	858 (24.3)	16 522 (23.6)	2726 (52.4)	2906 (48.5)	65 (29.6)
High	68 040 (50.7)	2649 (49.4)	1493 (42.2)	33 944 (48.5)	1551 (29.8)	1463 (24.4)	50 (22.7)
Missings	20 707 (15.4)	21 (0.4)	13 (0.4)	19 547 (27.9)	141 (2.7)	416 (6.9)	1 (0.5)
Smoking during pregnancy, N (%)							
Non-smoking	102 257 (76.1)	4889 (91.1)	3104 (87.8)	52 798 (75.4)	3574 (68.6)	4642 (77.4)	157 (71.4)
≤10 cigarettes/day	23 468 (17.5)	438 (8.2)	144 (4.1)	17 036 (24.3)	1343 (25.8)	1082 (18.1)	14 (6.4)
>10 cigarettes/day	1434 (1.1)	36 (0.7)	287 (8.1)	-	286 (5.5)	134 (2.2)	3 (1.4)
Missings	7153 (5.3)	2 (0.0)	1 (0.0)	182 (0.3)	4 (0.1)	136 (2.3)	46 (21.0)
BMI, N (%)							
<18.5 kg/m^2	5297 (3.9)	227 (4.2)	110 (3.1)	2905 (4.2)	156 (3.0)	183 (3.1)	6 (2.7)
18.5-24.9 kg/m^2	89 529 (66.7)	4098 (76.4)	2323 (65.7)	47 182 (67.4)	3191 (61.3)	3572 (59.6)	159 (72.3)
25-29.9 kg/m^2	25 815 (19.2)	776 (14.5)	522 (14.8)	13 443 (19.2)	789 (15.2)	1268 (21.2)	45 (20.5)
≥30 kg/m^2	10 076 (7.5)	264 (4.9)	122 (3.5)	5413 (7.7)	320 (6.2)	488 (8.1)	9 (4.1)
Missings	3595 (2.7)	0	459 (13.0)	1072 (1.5)	751 (14.4)	483 (8.1)	1 (0.5)
Parity, N (%)							
0	67 493 (50.3)	3248 (60.5)	2063 (58.3)	33 252 (47.5)	3236 (62.2)	3492 (58.3)	65 (29.6)
1	46 960 (35.0)	1668 (31.1)	1086 (30.7)	25 954 (37.1)	1497 (28.8)	1974 (32.9)	86 (39.1)
≥2	19 600 (14.6)	449 (8.4)	323 (9.1)	10 764 (15.4)	455 (8.7)	443 (7.4)	64 (29.1)
Missings	259 (0.2)	0	64 (1.8)	45 (0.1)	19 (0.4)	85 (1.4)	5 (2.3)
Hypertension during pregnancy (yes), N (%)	5103 (3.8)	479 (8.9)	12 (0.3)	3228 (4.6)	217 (4.2)	136 (2.3)	-
Missings	5877 (4.4)	0	64 (1.8)	4674 (6.7)	180 (3.5)	471 (7.9)	220 (100)
Diabetes (yes), N (%)	2060 (1.5)	50 (0.9)	11 (0.3)	665 (1.0)	13 (0.3)	388 (6.5)	-
Missings	8488 (6.3)	0	64 (1.8)	4905 (7.0)	569 (10.9)	2566 (42.8)	220 (100)

Abbreviations: BMI: body mass index; cig: cigarettes; N: Numbers; NA: not available; SD: standard deviation.
[a]Missing in term LBW corresponds to the number of preterm deliveries.

Supplemental material Table 4b Distribution of main characteristics of employees with ISCO-88 code in the total population and in each cohort

Covariates	INMA_new	KANC	MoBa	NINFEA	PÉLAGIE	REPRO_PL	RHEA
N	2122	3538	31 019	2504	2918	996	878
BIRTH OUTCOMES							
Birth weight (g), mean (SD)	3253 (480)	3487 (539)	3604 (553)	3215 (521)	3389 (488)	3365 (466)	3155 (487)
Missings, N (%)	20 (0.9)	0	14 (0.0)	0	1 (0.0)	0	14 (1.6)
Length of gestation (weeks), mean (SD)	39.6 (1.7)	39.3 (1.7)	39.6 (1.8)	39.4 (2.1)	39.9 (1.6)	39.5 (1.5)	38.5 (1.6)
Missings, N (%)	4 (0.2)	0	0	3 (0.1)	0	1 (0.1)	196 (22.3)
Small for gestational age (yes), N (%)	199 (9.4)	336 (9.5)	2935 (9.5)	239 (9.5)	274 (9.4)	105 (10.5)	51 (5.8)
Missings	96 (4.5)	1 (0)	20 (0.1)	28 (1.1)	8 (0.3)	5 (0.5)	231 (26.3)
Term low birth weight (yes)[a], N (%)	57 (2.7)	47 (1.3)	205 (0.7)	79 (3.2)	32 (1.1)	19 (1.9)	45 (5.1)
Preterm delivery (yes), N (%)	96 (4.5)	193 (5.5)	1406 (4.5)	168 (6.7)	103 (3.5)	45 (4.5)	87 (9.9)
Missings	4 (0.2)	0	0	3 (0.1)	0	1 (0.1)	196 (22.3)
Mode of delivery, N (%)							
Vaginal	1262 (59.5)	3538 (100)	26 907 (86.7)	1535 (61.3)	2356 (80.7)	622 (62.5)	416 (47.4)
Caesarean section (no type specified)	361 (17.1)	-	386 (1.2)	279 (11.1)	412 (14.1)	5 (0.5)	429 (48.9)
Elective caesarean	447 (21.1)	-	1340 (4.3)	266 (10.6)	89 (3.1)	138 (13.9)	25 (2.9)
Non-elective caesarean	-	-	2386 (7.7)	115 (4.6)	-	200 (20.1)	5 (0.6)
Missings	52 (2.5)	-	-	309 (12.3)	61 (2.1)	31 (3.1)	3 (0.3)
CHILD CHARACTERISTICS							
Sex, N (%)							
Boy	1080 (50.9)	1823 (51.5)	15 896 (51.3)	1239 (49.5)	1472 (50.5)	501 (50.3)	464 (52.9)
Girl	1037 (48.9)	1725 (48.5)	15 123 (48.8)	1265 (50.5)	1445 (49.5)	493 (49.5)	414 (47.2)
Missings	5 (0.2)	0	0	0	1 (0.0)	2 (0.2)	0
MATERNAL CHARACTERISTICS							
Age, N (%)							
<25 years	88 (4.2)	788 (22.3)	3016 (9.7)	30 (1.2)	308 (10.6)	161 (16.2)	115 (13.1)
25-29 years	556 (26.2)	1460 (41.3)	10 667 (34.4)	340 (13.6)	1194 (40.9)	444 (44.6)	278 (31.7)
30-34 years	952 (44.9)	889 (25.1)	12 198 (39.3)	1097 (43.8)	1027 (35.2)	316 (31.7)	331 (37.7)
≥35 years	457 (21.5)	401 (11.3)	5138 (16.6)	1037 (41.4)	389 (13.3)	73 (7.3)	151 (17.2)
Missings	69 (3.3)	0	0	0	0	2 (0.2)	3 (0.3)
Country of birth, N (%)							
European	1982 (93.4)	3538 (100)	-	2474 (98.8)	2874 (98.5)	996 (100)	877 (99.9)
Non-European	66 (3.1)	-	-	30 (1.2)	35 (1.2)	-	

Covariates	INMA_new	KANC	MoBa	NINFEA	PÉLAGIE	REPRO_PL	RHEA
N	2122	3538	31 019	2504	2918	996	878
Not available	-	-	31 019 (100)	-	-	-	-
Missings	74 (3.5)	0	0	0	9 (0.3)	0	1 (0.1)
Living with the father, N (%)	2089 (98.4)	2917 (82.5)	30 359 (97.9)	2236 (89.3)	2861 (98.1)	802 (80.5)	861 (98.1)
Missings	1 (0.1)	0	13 (0.0)	240 (9.6)	5 (0.2)	0	2 (0.2)
Education, N (%)							
Low	456 (21.5)	121 (3.4)	569 (1.8)	101 (4.0)	476 (16.3)	90 (9.0)	137 (15.6)
Medium	874 (41.2)	1442 (40.8)	9282 (29.9)	890 (35.5)	1333 (45.7)	297 (29.8)	449 (51.1)
High	789 (37.2)	1975 (55.8)	20 611 (66.5)	1510 (60.3)	1106 (37.9)	609 (61.1)	290 (33.0)
Missings	3 (0.1)	0	557 (1.8)	3 (0.1)	3 (0.1)	0	2 (0.2)
Smoking during pregnancy, N (%)							
Non-smoking	1423 (67.1)	3325 (94.0)	22 402 (72.2)	2292 (91.5)	2120 (72.7)	857 (86.0)	674 (76.8)
≤10 cigarettes/day	491 (23.1)	199 (5.6)	1588 (5.2)	189 (7.6)	672 (23.0)	125 (12.6)	148 (16.9)
>10 cigarettes/day	154 (7.3)	14 (0.4)	358 (1.2)	-	122 (4.2)	13 (1.3)	27 (3.1)
Missings	54 (2.5)	0	6671 (21.5)	23 (0.9)	4 (0.1)	1 (0.1)	29 (3.3)
BMI, N (%)							
<18.5 kg/m^2	92 (4.5)	192 (5.4)	876 (2.8)	218 (8.7)	208 (7.1)	83 (8.4)	41 (4.7)
18.5-24.9 kg/m^2	1494 (70.4)	1862 (52.6)	20 384 (65.7)	1773 (70.8)	2199 (75.4)	738 (74.1)	554 (63.1)
25-29.9 kg/m^2	390 (18.4)	1014 (28.7)	6549 (21.1)	345 (13.8)	358 (12.3)	134 (13.5)	182 (20.7)
≥30 kg/m^2	146 (6.9)	470 (13.3)	2467 (8.0)	111 (4.4)	134 (4.6)	33 (3.3)	99 (11.3)
Missings	0	0	743 (2.4)	57 (2.3)	19 (0.7)	8 (0.8)	2 (0.2)
Parity, N (%)							
0	1266 (59.7)	1713 (48.4)	14 910 (48.1)	1917 (76.6)	1368 (46.9)	593 (59.5)	370 (42.1)
1	743 (35.0)	1126 (31.8)	10 543 (34.0)	508 (20.3)	1100 (37.7)	346 (34.7)	329 (37.5)
≥2	111 (5.2)	699 (19.8)	5566 (17.9)	68 (2.7)	445 (15.3)	57 (5.7)	156 (17.8)
Missings	2 (0.1)	0	0	11 (0.4)	5 (0.2)	0	23 (2.6)
Hypertension during pregnancy (yes), N (%)	55 (2.6)	460 (13.0)	124 (0.4)	181 (7.2)	154 (5.3)	41 (4.1)	16 (1.8)
Missings	28 (1.3)	0	0	117 (4.7)	44 (1.5)	0	79 (9.0)
Diabetes (yes), N (%)	91 (4.3)	56 (1.6)	383 (1.2)	182 (7.3)	107 (3.7)	38 (3.8)	76 (8.7)
Missings	1 (0.1)	0	0	109 (4.4)	53 (1.8)	0	1 (0.1)

Abbreviations: BMI: body mass index; N: Numbers; NA: not available; SD: standard deviation.
[a]Missing in term LBW corresponds to the number of preterm deliveries.

Supplemental material Table 5 Coding of maternal educational level in each cohort

Cohorts	Low education	Medium education	High education
ABCD	0-5 years after primary education	6-10 years	≥11 years
BAMSE	9-year primary school/2 year secondary school	3-4 years secondary school	University or college degree
DNBC	Primary school	Lower secondary school	Upper secondary school
Generation R	No education, primary school, lower vocational training, intermediate general school or 3 years or less of general secondary school	More than 3 years of general secondary school, intermediate vocational training, or first year of higher vocational training and bachelor's degree	University degree
Generation XXI	≥6 to <9 years	≥9 to <12 years	≥12 years
INMA_Granada	No education or primary school	Secondary school	University degree or higher
INMA_new	No education or primary school	Secondary school	University degree or higher
KANC	No education or primary school (<12 years)	12 years – Secondary school	>12 years - University degree or higher
MoBa	<12 years	12 years – Secondary school	>12 years - University degree or higher
NINFEA	No education or primary school (≤8 years)	Secondary school (9 to 13 years)	University or higher (>13 years)
PÉLAGIE	<12 years	12-14 years	>14 years
REPRO_PL	≤9 years	10-12 years	>12 years
RHEA	Compulsory education (up to 9 years)	Lyceum and/or Post-secondary (3-5 additional years)	University degree or higher (≥16 years)

Supplemental material Table 6 Distribution of main characteristics of non-employed and employed pregnant women, 'potentially exposed' occupational sectors/subsectors, and 'unexposed' occupational group in the total population

	N	Maternal age mean (SD)	Overweight & obese N (%)	non-European N (%)[b]	Primary school N (%)	Smokers N (%)	Elective caesarean N (%)
Non-employed women	**44 334**	29.2 (5.0)	32.9	4.9	8.6	21.5	6.3
Employed women	**177 983**	30.3 (4.4)	27.1	1.5	4.1	16.8	5.2
Employees with job title coded under ISCO-88	**134 312**	30.3 (4.4)	26.7	1.9	4.4	18.9	5.3
Occupational sector/subsector[a]	**70 133**	29.8 (4.5)	28.4	1.5	5.2	20.7	5.2
Health	26 522	30.1 (4.3)	25.6	1.1	2.0	17.7	5.3
Nurses	11 052	30.3 (3.9)	24.3	1.2	0.8	12.5	5.5
Day-care	27 215	29.8 (4.4)	31.8	1.2	3.4	22.9	5.0
Personal care and related workers	12 070	28.7 (4.8)	35.4	1.8	6.7	30.7	5.1
Industry, commerce and home cleaning	13 053	28.2 (5.0)	32.0	2.7	15.1	29.3	5.0
Housekeeping and restaurant services	3605	28.1 (5.0)	32.7	2.6	14.4	33.7	5.2
Domestic and related helpers	2635	28.8 (5.4)	36.3	5.2	23.5	33.9	5.7
Agriculture and gardening	1458	29.5 (4.9)	30.2	2.2	7.6	20.4	4.7
Electricity/electronic/optic workers	2193	30.4 (4.0)	26.0	1.3	3.8	16.8	5.1
Laboratory work and chemical industry	4258	30.9 (3.8)	24.4	0.6	1.0	13.7	4.8
Food industry	968	27.9 (4.4)	41.7	0.4	11.0	31.8	6.2
Printing and painting	2114	30.8 (4.3)	21.2	1.3	3.0	21.1	5.4
Hairdressers	1890	28.6 (4.6)	25.3	1.8	12.1	27.7	5.7
Construction workers	693	28.7 (4.3)	36.4	0.1	3.3	40.4	6.4
'Unexposed' occupational group (sensitivity analysis)	**64 179**	30.9 (4.2)	24.9	2.2	3.5	16.9	5.5

Abbreviations: SD: standard deviation.

[a]The total number of pregnant women in the occupational sectors is different from 70 133 because some occupations were classified in different occupational sectors.

[b]Information on maternal country of birth not available in DNBC, Generation XXI, INMA_Granada, and MoBa.

Supplemental material Table 7 Distribution of birth outcomes of non-employed and employed pregnant women, 'potentially exposed' occupational sectors/subsectors, and 'unexposed' occupational group in the total population

	N[a]	Birth weight (g) mean (SD)	Small for gestational age N (%)	Term low birth weight N (%)	Length of gestation (weeks) mean (SD)	Preterm delivery N (%)
Non-employed women	**44 334**	3546 (583)	4308 (9.7)	495 (1.1)	39.6 (1.9)	2445 (5.5)
Employed women	**177 983**	3552 (560)	17 279 (9.7)	1897 (1.1)	39.8 (1.8)	8203 (4.6)
Employees with job title coded under ISCO-88	**134 312**	3539 (563)	12 826 (9.6)	1535 (1.1)	39.8 (1.8)	6311 (4.7)
Occupational sector/subsector[a]	**70 133**	3552 (563)	6645 (9.5)	802 (1.1)	39.8 (1.8)	3313 (4.7)
Health	26 522	3573 (556)	2444 (9.2)	267 (1.0)	39.8 (1.8)	1187 (4.5)
Nurses	11 052	3597 (547)	972 (8.8)	83 (0.8)	39.8 (1.8)	465 (4.2)
Day-care	27 215	3584 (564)	2562 (9.4)	265 (1.0)	39.9 (1.8)	1261 (4.6)
Personal care and related workers	12 070	3556 (573)	1211 (10.0)	140 (1.2)	39.8 (1.9)	601 (5.0)
Industry, commerce and home cleaning	13 053	3450 (568)	1316 (10.1)	232 (1.8)	39.6 (1.8)	717 (5.5)
Housekeeping and restaurant services	3605	3450 (587)	391 (10.9)	76 (2.1)	39.7 (1.9)	189 (5.2)
Domestic and related helpers	2635	3436 (574)	292 (11.1)	44 (1.7)	39.7 (1.9)	152 (5.8)
Agriculture and gardening	1458	3542 (574)	130 (8.9)	24 (1.7)	39.8 (1.8)	77 (5.3)
Electricity/electronic/optic workers	2193	3522 (539)	199 (9.1)	26 (1.2)	39.8 (1.8)	105 (4.8)
Laboratory work and chemical industry	4258	3563 (549)	398 (9.3)	36 (0.9)	39.9 (1.8)	178 (4.2)
Food industry	968	3516 (611)	93 (9.6)	14 (1.5)	39.7 (2.0)	65 (6.7)
Printing and painting	2114	3507 (549)	202 (9.6)	29 (1.4)	39.8 (1.8)	108 (5.1)
Hairdressers	1890	3474 (565)	177 (9.4)	24 (1.3)	39.6 (1.9)	106 (5.6)
Construction workers	693	3519 (557)	95 (13.7)	12 (1.7)	40.1 (1.6)	28 (4.0)
"Unexposed" (sensitivity analysis)	**64 179**	3527 (562)	6181 (9.6)	733 (1.1)	39.8 (1.8)	2998 (4.7)

Abbreviations: SD: standard deviation.
[a]The total number of pregnant women in the occupational sectors is different from 70 133 because some occupations were classified in different occupational sectors.
[b]Information on maternal country of birth not available in DNBC, Generation XXI, INMA_Granada, and MoBa.

Supplemental material Table 8a Sensitivity analysis: combined adjusted[a] associations between occupational sectors and subsectors and birth weight, small for gestational age and term low birth weight using the 'unexposed'[b] reference group. Effect estimates (β or OR – 95%CI), N (Numbers) and Cases are presented for the total population

Occupational sector/subsector	Birth weight (g)			Small for gestational age			Term low birth weight		
	N	β	95% CI	Cases	OR	95% CI	Cases	OR	95% CI
Total									
Health	20334	5,89	-1.41, 13.20	1821	0,91	0.86, 0.97	185	1.08	0.90, 1.29
Nurses	8626	14.60	3.99, 25.20	730	0,9	0.83, 0.98	65	1.05	0.79, 1.40
Day-care	20385	8.01	0.54, 15.48	1906	0.93	0.88, 0.99	188	1.03	0.86, 1.23
Personal care and related workers	8845	-18,22	-40.86, 4.41*	892	0.95	0.87, 1.03*	91	1.01	0.79, 1.30*
Industry, commerce and home cleaning	9906	0.06	-10.21, 10.32	1005	0.95	0.88, 1.03	179	1.08	0.88, 1.32
Housekeeping and restaurant services	2677	1.76	-15.69, 19.20	293	1.00	0.88, 1.15	56	1.59	1.02, 2.47
Domestic and related helpers	1877	-15.98	-36.81, 4.84	210	1.03	0.88, 1.21	29	1.30	0.86, 1.96*
Agriculture and gardening	1087	11.56	-14.62, 37.75	104	0.99	0.80, 1.23	16	1.57	0.90, 2.74
Electricity/electronic/optic workers	1756	-1.59	-22.12, 18.95	159	0.97	0.82, 1.15	21	1.08	0.68, 1.73
Laboratory work and chemical industry	3316	5.74	-9.63, 21.11	322	1.08	0.95, 1.21*	29	1.02	0.69, 1.51
Food industry	749	9.65	-21.89, 41.19	74	0.96	0.75, 1.23	11	1.50	0.78, 2.89
Printing and painting	1583	2.78	-18.69, 24.25	147	0.93	0.78, 1.11	23	1.48	0.95, 2.32
Hairdressers	1208	10.89	-14.23, 36.00	122	0.98	0.80, 1.19	16	2.34	0.37, 14.87*
Construction workers	509	-36.67	-75.32, 1.97	64	1.16	0.88, 1.52	7	1.73	0.78, 3.84

N: Number of pregnant women with the information about the outcome of interest; Cases: number of pregnancy women with the outcome of interest.

[a]Birth weight model adjusted for maternal age, parity, maternal education, maternal smoking during pregnancy, maternal BMI, marital status, infant's sex, length of gestation, and length of gestation^2, and maternal country of origin in ABCD, BAMSE, Generation R, INMA_new, NINFEA, and PELAGIE; SGA model adjusted for maternal education, maternal smoking during pregnancy, maternal BMI, marital status, and maternal country of origin in ABCD, BAMSE, Generation R, INMA_new, NINFEA, and PELAGIE; Term low birth weight model adjusted for maternal age, parity, maternal education, maternal smoking during pregnancy, maternal BMI, marital status, infant's sex , length of gestation, and maternal country of origin in ABCD, BAMSE, Generation R, INMA_new, NINFEA, and PELAGIE.

[b]"Unexposed" reference group: all pregnant women working in occupations considered not to be occupationally exposed to reprotoxic agents (managers, computer workers, teachers, business, legals, librarians, administratives, ship/aircraft personnel, office clerks, personal service workers, packers-labellers).

*Random effects model (*Q*-test *p*<0,05 and/or *I*^{2}≥25%)

Supplemental material Table 8b Sensitivity analysis: combined adjusted[a] associations between occupational sectors and subsectors and length of gestation and preterm delivery using the 'unexposed'[b] reference group. Effect estimates (β or OR – 95%CI), N (Numbers) and Cases are presented for the total population

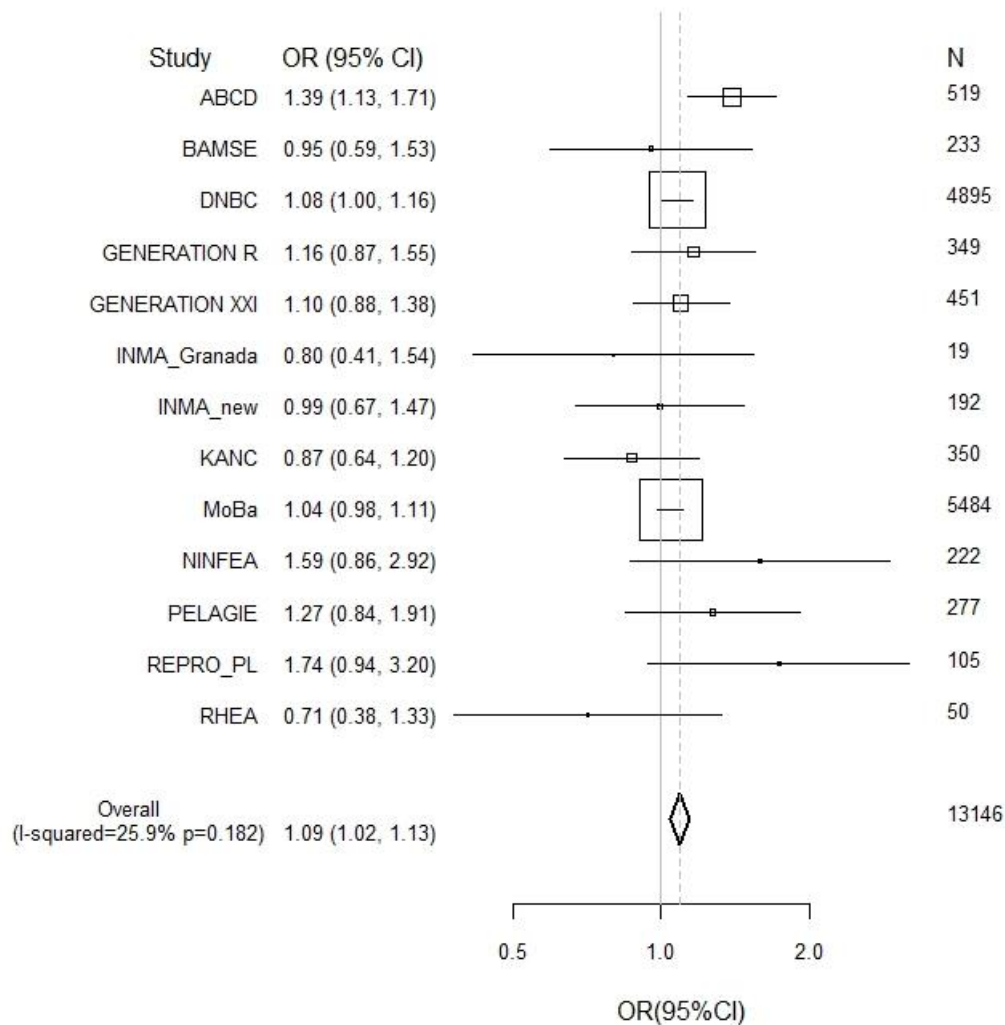| Occupational sector/subsector	Length of gestation (days)			Preterm delivery		
	N	β	95% CI	Cases	OR	95% CI
Total						
Health	20373	-0,04	-0.24, 0.16	889	1.06	0.97, 1.15
Nurses	8657	-0.14	-0.44, 0.15*	370	1.09	0.97, 1.24*
Day-care	20539	0.05	-0.16, 0.26	905	1.07	0.90, 1.28*
Personal care and related workers	8942	-0.04	-0.34, 0.25	414	1.11	0.99, 1.25*
Industry, commerce and home cleaning	9956	0.24	-0.05, 0.53	539	1.06	0.95, 1.19
Housekeeping and restaurant services	2699	0.59	-0.25, 1.44	150	1.10	0.91, 1.32
Domestic and related helpers	1907	-0.09	-0.56, 0.38	108	1.18	0.95, 1.46
Agriculture and gardening	1099	0.53	-0.19, 1.25	57	1.06	0.79, 1.42
Electricity/electronic/optic workers	1777	-0.06	-0.62, 0.51*	81	1.09	0.86, 1.37
Laboratory work and chemical industry	3340	-0.07	-0.49, 0.36	143	0.97	0.81, 1.16
Food industry	758	-0.88	-1.74, -0.01	50	1.54	1.14, 2.09
Printing and painting	1597	0.04	-0.55, 0.64*	78	1.09	0.86, 1.38
Hairdressers	1477	-0.22	-0.92, 0.47*	75	1.25	0.96, 1.63
Construction workers	513	1.24	0.21, 2.28	15	0.80	0.47, 1.36

N: Number of pregnant women with the information about the outcome of interest; Cases: number of pregnancy women with the outcome of interest.

[a]Models adjusted for maternal age, parity, maternal education, maternal smoking during pregnancy, maternal BMI, marital status, infant's sex, and maternal country of origin in ABCD, BAMSE, Generation R, INMA_new, NINFEA, and PELAGIE.

[b]"Unexposed" reference group: all pregnant women working in occupations considered not to be occupationally exposed to reprotoxic agents (managers, computer workers, teachers, business, legals, librarians, administratives, ship/aircraft personnel, office clerks, personal service workers, packers-labellers).
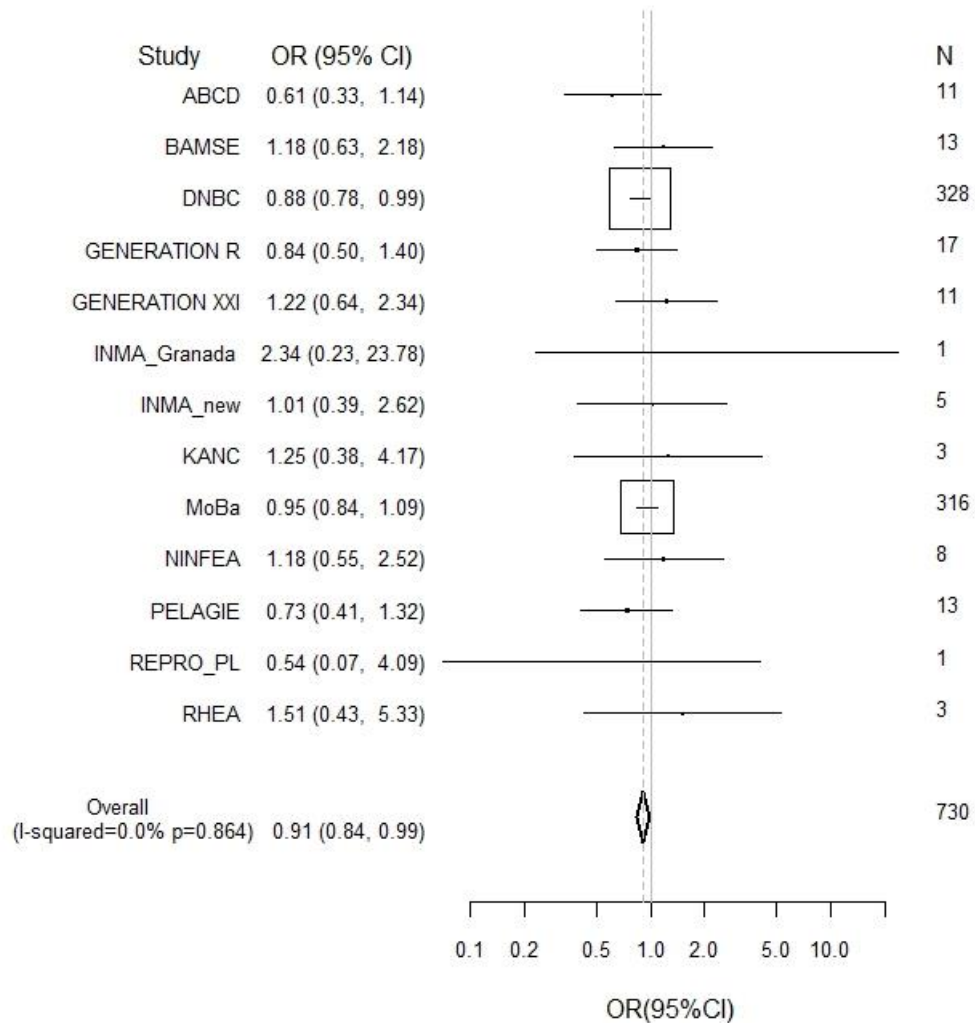
*Random effects model (Q-test $p<0,05$ and/or $I^2 \geq 25\%$)

Supplemental material Figure 1 Combined adjusted[a] associations between employed and non-employed women and small for gestational age. Effect estimates (OR - 95%CI) and numbers (N) are presented across cohorts and for the total population (Overall) and represent the number of employed women with SGA babies

[a]Adjusted for maternal education, maternal smoking during pregnancy, maternal BMI, marital status, and maternal country of origin in ABCD, BAMSE, Generation R, INMA_new, NINFEA, and PELAGIE. Random effects model (Q-test $p<0,05$ and/or $I^2 \geq 25\%$).
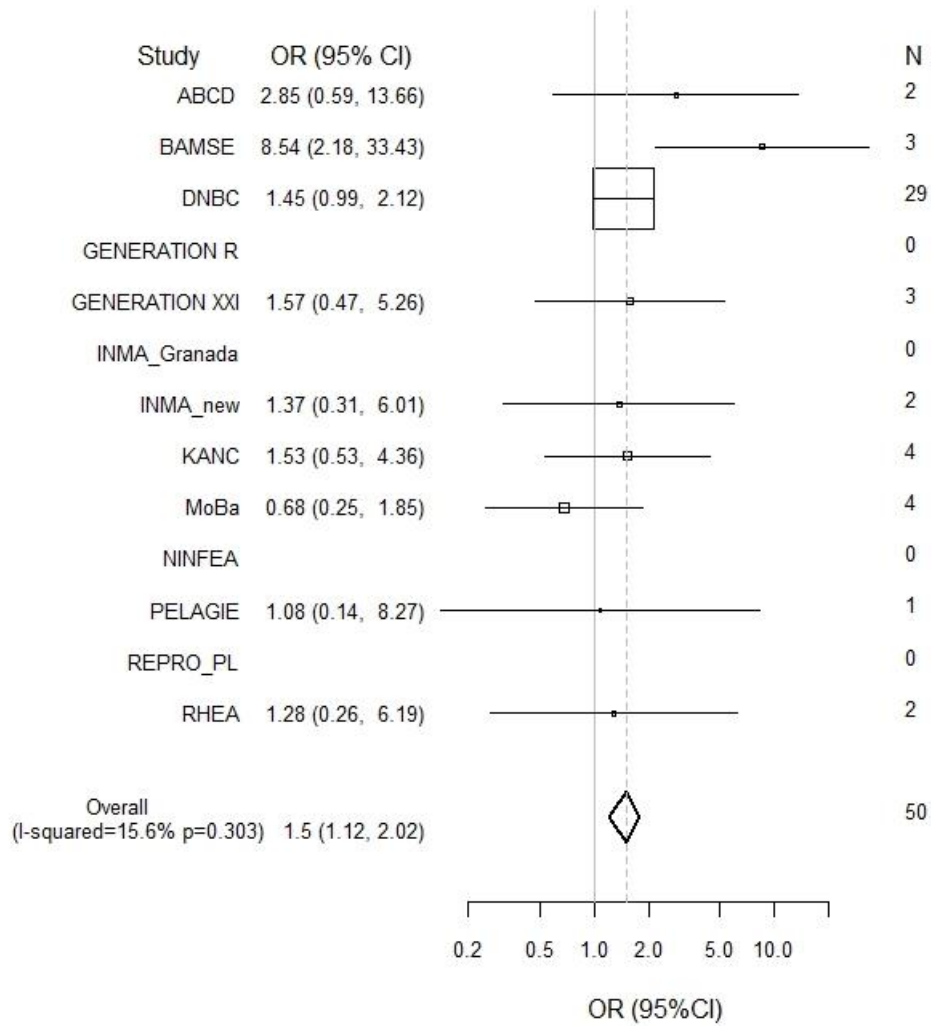
Supplemental material Figure 2 Combined adjusted[a] associations between nurses and small for gestational age. Effect estimates (OR - 95%CI) and numbers (N) are presented across cohorts and for the total population (Overall) and represent the number of nurses with SGA babies

Reference group: all other mothers working during pregnancy and with an ISCO-88 code but not included in the occupational sector being assessed.
[a]Adjusted for maternal education, maternal smoking during pregnancy, maternal BMI, marital status, and maternal country of origin in ABCD, BAMSE, Generation R, INMA_new, NINFEA, and PELAGIE.

Supplemental material Figure 3 Combined adjusted[a] associations between food industry workers and preterm delivery. Effect estimates (OR - 95%CI) and numbers (N) are presented across cohorts and for the total population (Overall) and represent the number of food industry workers with preterm deliveries

Study	OR (95% CI)		N
ABCD	2.85 (0.59, 13.66)		2
BAMSE	8.54 (2.18, 33.43)		3
DNBC	1.45 (0.99, 2.12)		29
GENERATION R			0
GENERATION XXI	1.57 (0.47, 5.26)		3
INMA_Granada			0
INMA_new	1.37 (0.31, 6.01)		2
KANC	1.53 (0.53, 4.36)		4
MoBa	0.68 (0.25, 1.85)		4
NINFEA			0
PELAGIE	1.08 (0.14, 8.27)		1
REPRO_PL			0
RHEA	1.28 (0.26, 6.19)		2
Overall (I-squared=15.6% p=0.303)	1.5 (1.12, 2.02)		50

OR (95%CI)

Reference group: all other mothers working during pregnancy and with an ISCO-88 code but not included in the occupational sector being assessed.
[a]Adjusted for maternal age, parity, maternal education, maternal smoking during pregnancy, maternal BMI, marital status, infant's sex, and maternal country of origin in ABCD, BAMSE, Generation R, INMA_new, NINFEA, and PELAGIE.