

Supplemental Table 1. Characteristics of the overall sample in 1989 of eligible women from the Nurses' Health Study II (NHS II) and the sample who participated in the Diabetes & Women's Health (DWH) Study

Characteristic in 1989	Eligible Source Population (n=6,485)		DWH Participants (n=3,667)	
	n	Mean (SD) or (%)	n	Mean (SD) or (%)
Age, years	6461	33.9 (4.5)	3667	34.0 (4.5)
25-29	1365	(21.1)	739	(20.2)
30-34	2368	(36.5)	1332	(36.3)
35-39	1948	(30.0)	1152	(31.4)
≥ 40	780	(12.0)	444	(12.1)
Missing	24	(0.4)		
Race				
White	5809	(89.6)	3350	(91.4)
Non-White	676	(10.4)	317	(8.6)
Marital status				
Not married	1005	(15.5)	539	(14.7)
Married	5470	(84.4)	3123	(85.2)
Missing	10	(0.2)	5	(0.1)
Parity				
Nulliparous	920	(14.2)	510	(13.9)
Multiparous	5565	(85.8)	3157	(86.1)
Smoker				
No	4290	(66.2)	2539	(69.2)
Current	825	(12.7)	390	(10.6)
Past	1361	(21.0)	733	(20.0)
Missing	9	(0.1)	5	(0.1)
Family history of type 2 diabetes (1 st degree relative)				
No	4677	(72.1)	2667	(72.7)
Yes	1808	(27.9)	1000	(27.3)
Body mass index, kg/m ²	6418	25.6 (5.9)	3639	25.1 (5.6)
<18.5	164	(2.5)	106	(2.9)
18.5-24.9	3505	(54.1)	2103	(57.4)
25.0-29.9	1539	(23.7)	841	(22.9)
30.0-34.9	693	(10.7)	338	(9.2)
35.0-39.9	318	(4.9)	160	(4.4)
≥ 40.0	199	(3.1)	91	(2.5)
Missing	67	(1.0)	28	(0.8)

Abbreviations: SD, standard deviation.

Supplemental Table 2. Characteristics of the overall sample of eligible women from Danish National Birth Cohort (DNBC) and the sample who participated in the Diabetes & Women's Health (DWH) Study

Characteristic at DNBC index pregnancy	Eligible Source Population (n=1274)		DWH Participants (n=790)	
	n	Mean (SD) or (%)	n	Mean (SD) or (%)
Age, years ^c	1274	31.3 (4.6)	790	31.6 (4.5)
< 25	77	(6.0)	35	(4.4)
25-29	352	(27.6)	219	(27.7)
30-34	526	(41.3)	333	(42.2)
35-39	282	(22.1)	175	(22.2)
≥ 40	37	(2.9)	28	(3.5)
Cohabitation status				
Not living with a partner	31	(2.4)	13	(1.7)
Living with a partner	1141	(89.6)	716	(90.6)
Missing	102	(8.0)	61	(7.7)
Pre-pregnancy body mass index, kg/m ²	1184	27.7 (5.9)	735	27.5 (5.8)
< 18.5	19	(1.5)	10	(1.3)
18.5-24.9	440	(34.5)	289	(36.6)
25.0-29.9	341	(26.8)	212	(26.8)
30.0-34.9	245	(19.2)	141	(17.9)
35.0-39.9	104	(8.2)	63	(8.0)
≥ 40.0	35	(2.8)	20	(2.5)
Missing	90	(7.1)	55	(7.0)
Parity				
Nulliparous	445	(34.9)	293	(37.1)
Multiparous	727	(57.1)	436	(55.2)
Unknown	102	(8.0)	61	(7.7)
Current Smoker				
No	856	(67.2)	553	(70.0)
Yes	362	(28.4)	209	(26.5)
Missing	56	(4.4)	28	(3.5)
Socioeconomic status				
High level professional	209	(16.4)	148	(18.7)
Medium level professional	323	(25.4)	219	(27.7)
Skilled worker	363	(28.5)	214	(27.1)
Student	41	(3.2)	22	(2.8)
Unskilled worker	203	(15.9)	113	(14.3)
Unemployed	30	(2.4)	10	(1.3)
Missing	105	(8.2)	64	(8.1)

Abbreviations: SD, standard deviation.

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Appendix 1. List of historical data relevant to the Diabetes & Women's Health (DWH) Study from the Nurses' Health Study II (NHS II) or Danish National Birth Cohort (DNBC).

Nurses' Health Study II^a	
<p>Lifestyle</p> <ul style="list-style-type: none"> • Food frequency questionnaire • Physical activity • Sleep • Smoking • Alcohol use • Shift work • Vitamins/supplements <p>Anthropometrics</p> <ul style="list-style-type: none"> • Height • Weight • Waist circumference • Hip circumference • Weight at 18 • Body type <p>Family History</p> <ul style="list-style-type: none"> • Myocardial infarction • Breast cancer • Hypertension • Melanoma • Diabetes • Colon or rectal cancer 	<p>Health Conditions</p> <ul style="list-style-type: none"> • Infertility • Contraception • Menopause • Hormone treatment • Heart problems • Cancer GI disorders • Diabetes • Other health conditions (specify) • Restless legs • Migraines • Medications • Cancer screening <p>Participant Birth History</p> <ul style="list-style-type: none"> • Birthweight • Breastfed • Gestational age <p>Demographics</p> <ul style="list-style-type: none"> • Marital status • Parity • Race/ethnicity • Age
Danish National Birth Cohort^a	
<p>Lifestyle</p> <ul style="list-style-type: none"> • Food frequency questionnaire • Sleep during pregnancy • Smoking during pregnancy • Alcohol use during pregnancy • Vitamins/supplements • Breastfeeding <p>Health Conditions</p> <ul style="list-style-type: none"> • Infertility • Contraception • Hypertension • Asthma • Allergies • Depression • Anemia • Medications 	<p>Demographics</p> <ul style="list-style-type: none"> • Marital status • Parity • Socioeconomic status • Age • Schooling <p>Anthropometrics</p> <ul style="list-style-type: none"> • Pre-pregnancy weight • Weight at enrollment • Postpartum weight • Height

^aNote this is not an exhaustive list of data that has been collected.

Appendix 2. Data collection summary for the Diabetes & Women's Health (DWH) Study by historical cohort.

Variable	Cycle 1 (2012-2014)	Cycle 2 (2014-2016)
Collected Biospecimens	NHS II and DNBC <ul style="list-style-type: none"> • Fasting blood <ul style="list-style-type: none"> ○ Serum and clot ○ Plasma ○ WBC/buffy coat and RBCs ○ Whole blood ○ PAXgene • First morning urine • Toenails 	NHS II and DNBC <ul style="list-style-type: none"> • Fasting blood <ul style="list-style-type: none"> ○ Serum and clot ○ Plasma ○ WBC/buffy coat and RBCs ○ Whole blood • First morning urine • Saliva
Pregnancy History	NHS II and DNBC <ul style="list-style-type: none"> • Gestational age • Pre-pregnancy weight • Body type before pregnancy • Weight at delivery • Weight 12 months after delivery • GDM • High blood pressure • Preeclampsia • Anemia • GDM treatment • Multi-fetal pregnancy • Fetal sex • Birthweight • Breastfeeding • Infant feeding DNBC Only <ul style="list-style-type: none"> • Infertility and treatment 	DNBC Only <ul style="list-style-type: none"> • Gestational age • Pre-pregnancy weight • Body type before pregnancy • Weight at delivery • Weight 12 months after delivery • GDM • High blood pressure • Preeclampsia • Anemia • GDM treatment • Multi-fetal pregnancy • Fetal sex • Birthweight • Breastfeeding • Infant feeding • Infertility and treatment
First GDM Pregnancy	NHS II and DNBC <ul style="list-style-type: none"> • Prior diabetes while not pregnant • High blood pressure while not pregnant • Lip/chin hair • 1-hour GCT • OGTT • Postpartum DM testing • High blood pressure after pregnancy • Blood pressure treatment • Postpartum depression • Anemia • Blood donation • Family history of GDM 	NHS II non-Cycle 1 participants only <ul style="list-style-type: none"> • Prior diabetes while not pregnant • High blood pressure while not pregnant • Smoking while pregnant • 1-hour GCT • OGTT • Postpartum DM testing • High blood pressure after pregnancy • Blood pressure treatment • Postpartum depression
Lifestyle	NHS II and DNBC <ul style="list-style-type: none"> • Physical activity • Sleep habits 	NHS II and DNBC <ul style="list-style-type: none"> • Physical activity • Sleep habits

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Variable	Cycle 1 (2012-2014)	Cycle 2 (2014-2016)
	<ul style="list-style-type: none"> • Smoking DNBC Only <ul style="list-style-type: none"> • Depression • Marital status • Food frequency questionnaire 	<ul style="list-style-type: none"> • Smoking DNBC Only <ul style="list-style-type: none"> • Depression • Food frequency questionnaire
Anthropometrics	NHS II and DNBC <ul style="list-style-type: none"> • Waist • Hip DNBC only <ul style="list-style-type: none"> • Weight • Height • DEXA 	NHS II and DNBC <ul style="list-style-type: none"> • Waist • Hip • Weight DNBC only <ul style="list-style-type: none"> • Height • DEXA
General Health	DNBC Only <ul style="list-style-type: none"> • Employment • Education • Contraception • Menopause • Hormone treatment • Food allergies • Heart problems • Cancer • GI disorders • Diabetes • Other health conditions (list) • Restless legs • Migraines • Medications • Cancer screening • Depression 	NHS II and DNBC <ul style="list-style-type: none"> • Bladder or kidney infection • Chronic kidney disease • Bladder or urologic surgery • Current blood pressure • Current resting heart rate • Anemia (long questionnaire only) • Eye health (long questionnaire only) • Current blood pressure • Current resting heart rate DNBC Only <ul style="list-style-type: none"> • OGTT • Contraception • Menopause • Hormone treatment • Heart problems • Cancer • GI disorders • Diabetes • Other health conditions (list) • Restless legs • Migraines • Bariatric surgery • Depression
Participants' Health in Childhood	DNBC Only <ul style="list-style-type: none"> • Birthweight • Breastfed • Gestational age • Weight at 18 • Body size 	
Family Medical History	NHS II and DNBC <ul style="list-style-type: none"> • GDM DNBC Only <ul style="list-style-type: none"> • Diabetes 	

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Variable	Cycle 1 (2012-2014)	Cycle 2 (2014-2016)
	<ul style="list-style-type: none"> • Cancer • Parkinson's • Multiple sclerosis • Heart problems 	
Participants' Male Partner's Health at time of pregnancy	<p>NHS II and DNBC</p> <ul style="list-style-type: none"> • Age • Height • Weight • Body type • Type 1 diabetes • Type 2 diabetes • High blood pressure • Elevated cholesterol • Heart disease • Education • Smoking 	<p>NHS II and DNBC</p> <ul style="list-style-type: none"> • Type 1 diabetes • Type 2 diabetes • High blood pressure • Elevated cholesterol • Heart disease
Participants' Child's Health	<p>NHS II and DNBC</p> <ul style="list-style-type: none"> • Age of menarche • Body type • Type 1 diabetes • Type 2 diabetes • High blood pressure • High cholesterol • Asthma • Autism 	<p>NHS II and DNBC</p> <ul style="list-style-type: none"> • Height • Weight • Kidney disease • Myopia • PCOS • Type 1 diabetes • Type 2 diabetes • High blood pressure • High cholesterol • Asthma • Schizophrenia • Multiple sclerosis • Autism