Supplemental Material

Table S1. Dietary intake of DASH food components by DASH score quartile (n=3,414)[*].

	Total group	**DASH quartile 1 score 10-21**	**DASH quartile 2 score 22-24**	**DASH quartile 3 score 25-27**	**DASH quartile 4 score 28-37**	
	n=3,414	*n=860*	*n=798*	*n=836*	*n=920*	*p-value*
Total grains, g/d	174 (122 – 218)	128 (88 – 177)	168 (117 – 208)	183 (139 – 222)	203 (162 – 246)	<0.001
Vegetables (excluding potatoes and condiments), g/d	143 (105 – 186)	104 (76 – 136)	129 (101 – 160)	151 (121 – 190)	188 (151 – 231)	<0.001
Fruits, g/d	296 (192 – 441)	202 (121 – 299)	275 (187 – 414)	319 (214 – 454)	389 (281 – 525)	<0.001
Non-full-fat dairy products, g/d	310 (171 – 462)	191 (94 – 386)	273 (154 – 445)	326 (204 – 473)	409 (266 – 549)	<0.001
Nuts, seeds, legumes, g/d	13 (6 – 23)	7 (2 – 13)	11 (5 – 18)	14 (7 – 24)	22 (13 – 35)	<0.001
Red and processed meats, g/d	53 (35 – 75)	74 (54 – 93)	60 (44 – 78)	49 (34 – 65)	36 (21 – 52)	<0.001
Sugar-sweetened beverages, sweets and added sugars, g/d	65 (33 – 140)	156 (83 – 262)	76 (38 – 148)	57 (31 – 99)	39 (21 – 63)	<0.001
Sodium, mg/d [†]	3317 (937)	3464 (982)	3337 (973)	3311 (957)	3168 (814)	<0.001

DASH, Dietary Approaches to Stop Hypertension. g/d, daily amount in grams and/or milliliters per day. mg/d, daily amount in milligrams per day.
[*]Values are median (inter quartile range). [†]Values are mean (sd).

Table S2. Non-response analysis: characteristics of participating women with and without data on dietary intake [*]

	Participants with data on dietary intake[†]	**Participants without data on dietary intake [‡]**	
	n=3,414	*n=512*	*p-value*
Maternal age at enrolment, mean (sd), years	31.4 (4.4)	30.3 (5.3)	<0.001
Parity, n nulliparous (%)	2039 (59.9)	291 (57.3)	0.27
Prepregnancy BMI, mean (sd)	23.1 (3.8)	23.1 (4.1)	0.80
Prepregnancy BMI ≥25	655 (22.2)	98 (23.1)	0.68
Gestational weight gain, mean (sd), kg	10.8 (4.4)	11.3 (4.8)	0.05
Gestational age at intake (weeks)[§]	14.7 (10.2, 23.1)	14.1 (10.3, 30.4)	<0.001
Higher education, n (%)	2000 (59.3)	232 (46.6)	<0.001
Smoking, n continued (%)	538 (17.0)	116 (25.3)	<0.001
Alcohol consumption, n continued (%)	1570 (50.0)	202 (44.4)	0.025
Folic acid supplement use, n (%)	2493 (89.1)	332 (82.0)	<0.001
Systolic blood pressure, mean (sd), mmHg			
Early-pregnancy	117.3 (11.9)	117.6 (12.3)	0.60
Mid-pregnancy	118.5 (11.7)	118.5 (10.9)	0.92
Late-pregnancy	120.4 (11.4)	119.7 (11.4)	0.20
Diastolic blood pressure, mean (sd), mmHg			
Early-pregnancy	68.5 (9.2)	68.1 (9.5)	0.48
Mid-pregnancy	67.2 (9.3)	67.0 (9.5)	0.61
Late-pregnancy	69.4 (9.2)	69.5 (9.3)	0.76
Umbilical artery pulsatility index, mean (sd)			
Mid-pregnancy	1.19 (0.18)	1.22 (0.18)	0.008
Late-pregnancy	0.98 (0.17)	0.98 (0.18)	0.37
Uterine artery resistance index, mean (sd)			
Mid-pregnancy	0.535 (0.089)	0.545 (0.090)	0.08
Late-pregnancy	0.483 (0.078)	0.481 (0.077)	0.62
Late-pregnancy notching, n (%)	48 (2.2)	2 (0.6)	0.07
Gestational hypertensive disorders, n (%)			
Gestational hypertension	173 (5.3)	24 (4.9)	0.74
Preeclampsia	59 (1.9)	8 (1.7)	0.80

[*]Values are means (sd) or percentages. [†]Women with data on dietary intake as described in Figure S1[‡] Women without data on dietary intake as described in Figure S2 [§]Median (95% range). [§]Median (95% range).

Table S3. **Longitudinal associations between DASH score and systolic and diastolic blood pressure**[*]

	Difference in systolic blood pressure (mmHg)			
DASH	Intercept	P-value[†]	Slope (mmHg(95%CI))	P-value[†]
Quartile 1	113.5	0.08	0.01 (-0.06, 0.08)	0.75
Quartile 2	112.5	0.56	0.04 (-0.03, 0.10)	0.31
Quartile 3	113.4	0.10	-0.05 (-0.11, 0.02)	0.18
Quartile 4	111.9	Reference	Reference	Reference
	Difference in diastolic blood pressure (mmHg)			
DASH	Intercept	P-value[†]	Slope (mmHg(95%CI))	P-value[†]
Quartile 1	100.1	0.08	0.01 (-0.04, 0.06)	0.70
Quartile 2	99.6	0.32	0.01 (-0.03, 0.06)	0.64
Quartile 3	99.7	0.25	-0.02 (-0.07, 0.04)	0.54
Quartile 4	98.9	Reference	Reference	Reference

DASH, Dietary Approaches to Stop Hypertension.

[*]Values are based on repeated non-linear regression models and reflect the change in blood pressure in mmHg per DASH quartile compared to women with the highest dietary quality (quartile 4) as reference. Models are adjusted for gestational age at the time of measurements. [†]P-value reflects the significance level of the estimate.

Table S4. Basic models: associations of maternal DASH score with systolic and diastolic blood pressure in early-, mid- and late-pregnancy (n=3,414).

	Difference in systolic blood pressure (mmHg)		
	Early-pregnancy	Mid-pregnancy	Late-pregnancy
DASH	n=2,831	n=3,299	n=3,321
Quartile 1[†]	1.14 (-0.09, 2.36)	1.97 (0.87, 3.08)[*]	1.77 (0.69, 2.85)[*]
	n=702	n=823	n=825
Quartile 2[†]	0.70 (-0.54, 1.94)	1.28 (0.16, 2.41)[*]	1.54 (0.45, 2.64)[*]
	n=664	n=773	n=782
Quartile 3[†]	0.62 (-0.60, 1.84)	0.49 (-0.62, 1.60)	0.17 (-0.91, 1.25)
	n=704	n=808	n=815
Quartile 4[†]	Reference	Reference	Reference
	n=761	n=895	n=899
Trend[‡]	*-0.40 (-0.83, -0.04)*	*-0.77 (1.16, -0.37)*[*]	*-0.69 (-1.08, -0.30)*[*]
	Difference in diastolic blood pressure (mmHg)		
	Early-pregnancy	Mid-pregnancy	Late-pregnancy
DASH	n=2,831	n=3,298	n=3,320
Quartile 1[†]	0.69 (-0.25, 1.64)	2.19 (1.32, 3.06)[*]	1.11 (0.24, 1.97)[*]
	n=702	n=822	n=825
Quartile 2[†]	0.38 (-0.58, 1.33)	1.57 (0.68, 2.45)[*]	0.75 (-0.13, 1.63)
	n=664	n=773	n=781
Quartile 3[†]	0.23 (-0.71, 1.17)	0.76 (-0.12, 1.64)	0.20 (-0.67, 1.07)
	n=704	n=808	n=815
Quartile 4[†]	Reference	Reference	Reference
	n=761	n=895	n=899
Trend[‡]	*-0.28 (-0.58, 0.09)*	*-0.79 (-1.10, -0.48)*[*]	*-0.46 (-0.77, -0.15)*[*]

DASH, Dietary Approaches to Stop Hypertension.

* P-value <0.05.[†]Values are regression coefficients (95% confidence interval) and reflect the difference in mmHg blood pressure per DASH quartile. Groups are compared to women with the highest dietary quality (quartile 4) as reference. Models are adjusted for gestational age at the time of intake. Estimates are from multiple imputed data. [‡]Trends were based on multiple linear regression models with DASH as SDS. Models are adjusted for gestational age at the time of intake. Estimates are from multiple imputed data.

Table S5. Basic models: associations of DASH score with placental vascular function (n=3,414).

	Umbilical artery pulsatility index[†,‡]		**Uterine artery resistance index**[†,‡]		**Bilateral notching**[‡,§]
	Mid-pregnancy	Late-pregnancy	Mid-pregnancy	Late-pregnancy	Late-pregnancy
DASH	n=2,527	n=2,776	n=1,898	n=2,076	n_{cases}=48
Quartile 1	0.027 (0.007, 0.047)[*]	0.038 (0.021, 0.055)[*]	0.000 (-0.011, 0.012)	0.010 (0.001, 0.020)[*]	1.09 (0.51, 2.34)
	n=598	n=672	n=433	n=496	n_{cases}=13
Quartile 2	0.024 (0.004, 0.044)[*]	0.007 (-0.011, 0.024)	0.000 (-0.011, 0.011)	0.005 (-0.005, 0.014)	0.95 (0.43, 2.11)
	n=600	n=644	n=448	n=477	n_{cases}=11
Quartile 3	0.006 (-0.013, 0.026)	0.015 (-0.002, 0.032)	0.000 (-0.011, 0.011)	0.001 (-0.009, 0.010)	0.80 (0.35, 1.82)
	n=630	n=693	n=468	n=516	n_{cases}=10
Quartile 4	Reference	Reference	Reference	Reference	Reference
	n=699	n=767	n=549	n=587	n_{cases}=14
Trend[‖]	*-0.013 (-0.020, -0.005)*[*]	*-0.013 (-0.019, -0.007)*[*]	*0.000 (-0.004, 0.005)*	*-0.003 (-0.007, 0.000)*	*1.02 (0.76, 1.36)*

DASH, Dietary Approaches to Stop Hypertension. UmPI, umbilical artery pulsatility index. UtRI, uterine artery resistance index.
[*]P-value<0.05. [†]Values are regression coefficients (95% confidence interval) and reflect differences in UmPI and UtRI per DASH quartile. Groups are compared to women with the highest dietary quality according to the DASH score (quartile 4) as reference. Estimates are from multiple imputed data. [‡]Models are adjusted for gestational age at the time of intake. [§]Values are odds ratios (95% confidence interval) that reflect difference in risks of late-pregnancy notching per DASH quartile. Groups are compared to women with a healthy dietary pattern (quartile 4) as reference. Estimates are from multiple imputed data. [‖] Trends were based on multiple linear regression models with DASH as SDS for UmPI and UtPI, and on multiple logistic regression models with DASH as SDS for bilateral notching.

Table S6. **Longitudinal associations between DASH score and umbilical artery pulsatility index and uterine artery resistance index**[*]

	Difference in umbilical artery pulsatility index			
DASH	Intercept	P-value[†]	Slope (95% CI)	P-value[†]
Quartile 1	1.642	0.39	0.0002 (-0.002, 0.002)	0.86
Quartile 2	1.690	0.01	-0.002 (-0.004, -0.000)	0.04
Quartile 3	1.628	0.66	-0.0001 (-0.002, 0.002)	0.96
Quartile 4	1.615	Reference	Reference	Reference
	Difference in uterine artery resistance index			
DASH	Intercept	P-value[†]	Slope (95% CI)	P-value[†]
Quartile 1	0.637	0.23	0.001 (-0.0002, 0.002)	0.70
Quartile 2	0.636	0.21	0.001 (-0.0003, 0.002)	0.64
Quartile 3	0.651	0.77	0.0001 (-0.001, 0.001)	0.54
Quartile 4	0.656	Reference	Reference	Reference

DASH, Dietary Approaches to Stop Hypertension. CI, Confidence interval.

[*]Values are based on repeated non-linear regression models and reflect the change in umbilical artery pulsatility index and uterine artery resistance index per DASH quartile compared to women with the highest dietary quality (quartile 4) as reference. Models are adjusted for gestational age at the time of measurement. [†]P-value reflects the significance level of the estimate.

Table S7. ***Secondary outcome:*** **associations of DASH score with uterine artery pulsatility index (n=3,414).**

		Absolute values and differences in UtPI	
		Mid-pregnancy *n=1,530*	Late-pregnancy *n=1,747*
DASH			
Quartile 1	Absolute mean value (sd)[*]	0.895 (0.275)	0.751 (0.199)
	Basic model[†,‡]	0.020 (-0.017, 0.057)	0.022 (-0.004, 0.048)
	Confounder model[†,§]	0.013 (-0.026, 0.053)	0.013 (-0.015, 0.041)
		n=342	n=417
Quartile 2	Absolute mean value (sd)[*]	0.883 (0.261)	0.736 (0.189)
	Basic model[†,‡]	0.009 (-0.028, 0.045)	0.007 (-0.019, 0.032)
	Confounder model[†,§]	0.010 (-0.027, 0.046)	0.006 (-0.020, 0.033)
		n=354	n=408
Quartile 3	Absolute mean value (sd)[*]	0.875 (0.252)	0.735 (0.206)
	Basic model[†,‡]	0.000 (-0.35, 0.036)	0.006 (-0.019, 0.031)
	Confounder model[†,§]	0.000 (-0.036, 0.035)	0.004 (-0.021, 0.029)
		n=394	n=438
Quartile 4	Absolute mean value (sd)[*]	0.875 (0.256)	0.729 (0.187)
	Basic model[†,‡]	Reference	Reference
	Confounder model[†,§]	Reference	Reference
		n=440	n=484
Trend[d]	*Basic model*[‡,‖]	*-0.004 (-0.017)*	*-0.006 (-0.015, 0.003)*
	Confounder model[§,‖]	*-0.001 (-0.015, 0.014)*	*-0.003 (-0.013, 0.007)*

UtPI, Uterine artery pulsatility index. DASH, Dietary Approaches to Stop Hypertension. Sd, standard deviation. CI, Confidence Interval.

[*]Values are mean UtPI values (sd) and reflect the absolute value in uterine artery pulsatility index per DASH Quartile. P-values for comparison of absolute values among the four DASH quartiles were obtained by ANOVA (mid-pregnancy UtPI, p-value=0.693; late-pregnancy UtPI, p-value 0.387).

[†]Values are regression coefficients (95% confidence interval) and reflect differences in UtPI per DASH Quartile. Groups are compared to women with the highest dietary quality according to the DASH score (Quartile 4) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: mid-pregnancy UtPI, R^2=0.02; late-pregnancy UtPI, R^2=0.02.[‡]Models are adjusted for gestational age at intake.[§]Models are adjusted for maternal age, educational level, parity, prepregnancy BMI, smoking habits, alcohol use, folic acid use, total energy intake and gestational age at time of the measurements. [‖]Trends were based on multiple linear regression models with DASH dietary score as SDS. R^2 values for confounder models: mid-pregnancy UtPI, R^2=0.02; late-pregnancy UtPI, R^2=0.08.

Table S8. Basic models: associations of maternal DASH score the risks of gestational hypertensive disorder (3,414)[*].

	Gestational hypertensive disorders	**Gestational hypertension**	**Preeclampsia**
	Odds ratio (95% CI)	Odds ratio (95% CI)	Odds ratio (95% CI)
DASH	n_{cases}=232	n_{cases}=173	n_{cases}=59
Quartile 1	1.31 (0.91, 1.88)	1.22 (0.81, 1.84)	1.62 (0.79, 3.30)
	n_{cases}=70	n_{cases}=51	n_{cases}=19
Quartile 2	0.96 (0.65, 1.42)	1.05 (0.68, 1.61)	0.62 (0.25, 1.57)
	n_{cases}=49	n_{cases}=42	n_{cases}=7
Quartile 3	1.00 (0.69, 1.47)	0.81 (0.51, 1.27)	1.70 (0.84, 3.43)
	n_{cases}=54	n_{cases}=34	n_{cases}=20
Quartile 4	Reference	Reference	Reference
	n_{cases}=59	n_{cases}=46	n_{cases}=13
Trend[†]	*0.90 (0.79, 1.03)*	*0.90 (0.77, 1.05)*	*0.90 (0.70, 1.16)*

DASH, Dietary Approaches to Stop Hypertension. CI, Confidence Interval.

[*]Values are odds ratios (95% confidence interval) that reflect difference in risks of gestational hypertensive disorders, gestational hypertension and preeclampsia per DASH quartile. Groups are compared to women with the highest dietary quality according to the DASH score(quartile 4) as reference. Estimates are from multiple imputed data. Models are adjusted for gestational age at the time of intake. [†]Trends were based on multiple logistic regression models with DASH as SDS.

Table S9. ***Sensitivity analysis:*** **associations of maternal DASH score with systolic and diastolic blood pressure in early-, mid- and late-pregnancy in participants without pre-existent diabetes or gestational diabetes (n=3,378).**

	Absolute values and differences in systolic blood pressure (mmHg)			
DASH		Early-pregnancy *n=2,802*	Mid-pregnancy *n=3,263*	Late-pregnancy *n=3,286*
Quartile 1	Absolute mean value (sd)[†]	117.65 (11.79)	119.43 (12.02)	121.14 (12.01)
	Basic model[‡,§]	0.98 (-0.24, 2.20)	1.91[*] (0.80, 3.02)	1.66[*] (0.58, 2.73)
	Confounder model[‡,‖]	-0.53 (-1.77, 0.70)	0.01 (-1.14, 1.15)	-0.26 (-1.38, 0.86)
		n=692	n=809	n=811
Quartile 2	Absolute mean value (sd)[†]	117.17 (12.38)	118.77 (12.23)	120.93 (11.68)
	Basic model[‡,§]	0.48 (-0.76, 1.72)	1.22[*] (0.09, 2.35)	1.44[*] (0.35, 2.54)
	Confounder model[‡,‖]	-0.51 (-1.68, 0.67)	0.06 (-1.02, 1.13)	0.38 (-0.67, 1.43)
		n=657	n=765	n=774
Quartile 3	Absolute mean value (sd)[†]	117.17 (12.27)	117.94 (11.71)	119.64 (10.92)
	Basic model[‡,§]	0.53 (-0.69, 1.75)	0.43 (-0.69, 1.54)	0.16 (-0.92, 1.24)
	Confounder model[‡,‖]	-0.06 (-1.20, 1.08)	-0.18 (-1.22, 0.87)	-0.34 (-1.37, 0.68)
		n=696	n=799	n=806
Quartile 4	Absolute mean value (sd)[†]	116.63 (10.97)	117.48 (10.89)	119.48 (10.81)
	Basic model[‡,§]	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference	Reference	Reference
		n=757	n=890	n=895
Trend[ǂ]	*Basic model*[ǂ]	*-0.33 (-0.76, 0.11)*	*-0.75*[*] *(-1.15, -0.35)*	*-0.66*[*] *(-1.05, -0.27)*
	Confounder model[§]	*0.26(-0.19, 0.71)*	*-0.01 (-0.43, 0.41)*	*0.10 (-0.31, 0.51)*
	Absolute values and differences in diastolic blood pressure (mmHg)			
DASH		Early-pregnancy[†] *n=2,802*	Mid-pregnancy[†] *n=3,262*	Late-pregnancy[†] *n=3,285*
Quartile 1	Absolute mean value (sd)[†]	68.80 (9.14)	68.22 (9.74)	69.86 (9.59)
	Basic model[‡,§]	0.65 (-0.29, 1.59)	2.16[*] (1.28, 3.03)	1.03[*] (0.16, 1.90)
	Confounder model[‡,‖]	0.15 (-0.81, 1.10)	1.34[*] (0.44, 2.24)	0.04 (-0.84, 0.93)
		n=692	n=808	n=811
Quartile 2	Absolute[†]	68.43 (10.00)	67.56 (9.70)	69.47 (9.25)
	Basic model[‡,§]	0.25 (-0.70, 1.21)	1.49[*] (0.60, 2.37)	0.63 (-0.25, 1.51)
	Confounder model[‡,‖]	-0.25 (-1.16, 0.66)	0.82 (-0.02, 1.66)	-0.08 (-0.91, 0.75)

		n=657	n=765	n=773
Quartile 3	Absolute mean value (sd)[†]	68.28 (8.97)	66.77 (8.87)	68.97 (8.73)
	Basic model[‡,§]	0.16 (-0.78, 1.10)	0.71 (-0.17, 1.59)	0.13 (-0.74, 1.00)
	Confounder model[‡,‖]	-0.25 (-1.13, 0.63)	0.30 (-0.52, 1.12)	-0.26 (-1.07, 0.55)
		n=696	n=799	n=806
Quartile 4	Absolute mean value (sd)[†]	68.10 (8.54)	66.05 (8.50)	68.83 (8.96)
	Basic model[‡,§]	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference	Reference	Reference
		n=757	n=890	n=895
Trend[#]	*Basic model*[‡]	*-0.23 (-0.57, 0.11)*	*-0.79*[*] *(-1.10, -0.47)*	*-0.43*[*] *(-0.74, -0.12)*
	Confounder model[‖]	*-0.03 (-0.37, 0.32)*	*-0.47*[*] *(-0.80, -0.14)*	*-0.04 (-0.36, 0.28)*

DASH, Dietary Approaches to Stop Hypertension. Sd, standard deviation. SBP, systolic blood pressure. DBP, diastolic blood pressure.
[*] P-value<0.05. [†]Values are mean blood pressure values (sd) and reflect the absolute value in SBP and DBP per DASH Quartile. P-values for comparison of absolute values among the four DASH quartiles were obtained by ANOVA (early-pregnancy SBP, p-value=0.433; mid-pregnancy SBP, p-value=0.003; late-pregnancy SBP, p-value=0.003; early-pregnancy DBP, p-value=0.522; mid-pregnancy DBP, p-value<0.001; late-pregnancy DBP, p-value=0.081). [‡]Values are regression coefficients (95% confidence interval) and reflect the difference in mmHg blood pressure per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 4) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: early-pregnancy SBP, R^2=0.14; mid-pregnancy SBP, R^2=0.15, late-pregnancy SBP, R^2=0.12; early-pregnancy DBP, R^2=0.14; mid-pregnancy DBP, R^2=0.16; late-pregnancy, R^2=0.15. [§]Models are adjusted for gestational age at intake.[‖]Models are adjusted for maternal age, educational level, parity, prepregnancy BMI, smoking habits, alcohol use, folic acid use, total energy intake and gestational age at time of the measurements. [#]Trends were based on multiple linear regression models with DASH dietary score as SDS. R^2 values for confounder models: early-pregnancy SBP, R^2=0.14; mid-pregnancy SBP, R^2=0.15, late-pregnancy SBP, R^2=0.12; early-pregnancy DBP, R^2=0.14; mid-pregnancy DBP, R^2=0.16; late-pregnancy, R^2=0.15.

Table S10. ***Sensitivity analysis:*** **associations of DASH score with placental vascular function in participants without pre-existent or gestational diabetes (n=3,378).**

		Absolute values and differences in UmPI[*,†]		**Absolute values and differences in UtRI[*,†]**		**Bilateral notching[‡,†]**
DASH		Mid-pregnancy *n=2,060*	Late-pregnancy *n=2,751*	Mid-pregnancy *n=1,884*	Late-pregnancy *n=2,505*	Late-pregnancy n_{cases}=48
Quartile 1	Absolute mean value (sd)[†]	1.201 (0.181)	0.999 (0.177)	0.536 (0.091)	0.490 (0.076)	n.a.
	Basic model[‡,§]	0.026[*] (0.006, 0.046)	0.036[*] (0.019, 0.053)	0.000 (-0.11, 0.012)	0.010[*] (0.001, 0.020)	1.05 (0.52, 2.37)
	Confounder model[‡,‖]	0.011 (-0.010, 0.032) n=489	0.024[*] (0.006, 0.043) n=661	-0.003 (-0.015, 0.010) n=428	0.009 (-0.001, 0.019) n=589	1.12 (0.51, 2.45) n_{cases}=13
Quartile 2	Absolute mean value (sd)[†]	1.199 (0.184)	0.969 (0.160)	0.535 (0.090)	0.484 (0.076)	n.a.
	Basic model[‡,§]	0.024[*] (0.004, 0.044)	0.007 (-.010, 0.024)	0.000 (-0.011, 0.012)	0.005 (-0.005, 0.014)	0.96 (0.43, 2.13)
	Confounder model[‡,‖]	0.019 (-0.001, 0.039) n=473	0.002 (-0.016, 0.019) n=637	0.000 (-0.011, 0.011) n=446	0.005 (-0.004, 0.014) n=596	0.95 (0.43, 2.11) n_{cases}=11
Quartile 3	Absolute mean value (sd)[†]	1.180 (0.186)	0.978 (0.163)	0.535 (0.089)	0.480 (0.081)	n.a.
	Basic model[‡,§]	0.005 (-0.014, 0.025)	0.015 (-0.002, 0.032)	0.000 (-0.011, 0.012)	0.000 (-0.009, 0.010)	0.81 (0.36, 1.84)
	Confounder model[‡,‖]	0.008 (-0.011, 0.27) n=511	0.015 (-0.002, 0.032) n=686	0.000 (-0.012, 0.011) n=463	0.000 (-0.010, 0.009) n=623	0.83 (0.37, 1.89) n_{cases}=10
Quartile 4	Absolute mean value (sd)[†]	1.174 (0.182)	0.962 (0.162)	0.535 (0.088)	0.479 (0.077)	n.a.
	Basic model[‡,§]	Reference	Reference	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference n=587	Reference n=767	Reference n=547	Reference n=697	Reference n_{cases}=14
Trend[#]	*Basic model[‡]*	*-0.012[*] (-0.019, -0.005)*	*-0.013[*] (-0.019, -0.006)*	*0.001 (-0.004, 0.005)*	*-0.003 (-0.007, 0.000)*	*1.01 (0.76, 1.35)*
	Confounder model[§]	*-0.006 (-0.014, 0.001)*	*-0.008[*] (-0.015, -0.001)*	*0.002 (-0.003, 0.006)*	*-0.003 (-0.006, 0.001)*	*1.01 (0.76, 1.36)*

UmPI, umbilical artery pulsatility index. UtRI, umbilical artery resistance index. DASH, Dietary Approaches to Stop Hypertension. Sd, standard deviation. [*] P-value<0.05. [†]Values are mean values (sd) and reflect the absolute value in UmPI and UtRI per DASH Quartile. P-values for comparison of absolute values among the four DASH quartiles were obtained by ANOVA (mid-pregnancy UmPI, p-value=0.016; late-pregnancy UmPI, p-value<0.001; mid-pregnancy UtRI, p-value=1.000; late-pregnancy UtRI, p-value=0.108).[‡]Values for UmPI and UtRI are regression coefficients (95% confidence interval) and reflect the difference in UmPI and UtRI per DASH Quartile. Values for bilateral notching are odds ratios (95% confidence interval) that reflect difference in risks of bilateral notching per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 4) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: mid-pregnancy UmPI, R^2=0.07; late-pregnancy UmPI, R^2=0.04; mid-pregnancy UtRI,

R^2=0.02; late-pregnancy UtRI, R^2=0.03; bilateral notching R^2=0.01.[§]Models are adjusted for gestational age at intake. [‖] Models for UmPI and UtRI are adjusted for maternal age, educational level, parity, prepregnancy BMI, smoking habits, alcohol use, folic acid use, total energy intake and gestational age at time of the measurements. Models for bilateral notching are adjusted for parity, prepregnancy BMI, folic acid use and gestational age at time of measurement. [#]Trends were based on multiple linear regression models with DASH dietary score as SDS for UmPI and UtRI; and on multiple logistic regression models with DASH dietary score as SDS for bilateral notching. R^2 values for confounder models: mid-pregnancy UmPI, R^2=0.07; late-pregnancy UmPI, R^2=0.04; mid-pregnancy UtRI, R^2=0.02; late-pregnancy UtRI, R^2=0.03; bilateral notching R^2=0.01.

Table S11. *Sensitivity analysis:* associations of maternal DASH score the risks of gestational hypertensive disorder in participants without pre-existent or gestational diabetes (n=3,378)[*].

		Gestational hypertensive disorders	**Gestational hypertension**	**Preeclampsia**
DASH		Odds ratio (95% CI) n_{cases}=224	Odds ratio (95% CI) n_{cases}=166	Odds ratio (95% CI) n_{cases}=224
Quartile 1	Basic model[†]	1.31 (0.91, 1.88)	1.21 (0.80, 1.84)	1.63 (0.80, 3.33)
	Confounder model[‡]	1.15 (0.79, 1.69)	1.04 (0.67, 1.61)	1.50 (0.72, 3.16)
		n_{cases}=68	n_{cases}=49	n_{cases}=19
Quartile 2	Basic model[†]	0.89 (0.60, 1.34)	1.00 (0.64, 1.55)	0.54 (0.20, 1.41)
	Confounder model[‡]	0.79 (0.53, 1.20)	0.87 (0.55, 1.37)	0.50 (0.19, 1.33)
		n_{cases}=45	n_{cases}=39	n_{cases}=6
Quartile 3	Basic model[†]	1.01 (0.69, 1.48)	0.81 (0.51, 1.28)	1.71 (0.84, 3.45)
	Confounder model[‡]	0.96 (0.65, 1.43)	0.74 (0.46, 1.18)	1.78 (0.87, 3.62)
		n_{cases}=53	n_{cases}=33	n_{cases}=20
Quartile 4	Basic model[†]	Reference	Reference	Reference
	Confounder model[‡]	Reference	Reference	Reference
		n_{cases}=58	n_{cases}=45	n_{cases}=13
Trend[§]	Basic model[†]	*0.91 (0.79, 1.04)*	*0.91 (0.78, 1.06)*	*0.90 (0.69, 1.16)*
	Confounder model[‡]	*0.96 (0.83, 1.11)*	*0.96 (0.82, 1.14)*	*0.93 (0.71, 1.22)*

DASH, Dietary Approaches to Stop Hypertension. CI, Confidence Interval. GHD, Gestational hypertensive disorders. GH, Gestational Hypertension. PE, Preeclampsia.

[*]Values are odds ratios (95% confidence interval) that reflect difference in risks of gestational hypertensive disorders, gestational hypertension and preeclampsia per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 1) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: GHD, R^2=0.09; GH, R^2=0.09; PE, R^2=0.08. [†]Models are adjusted for gestational age at intake. [‡] Models are adjusted for parity, prepregnancy BMI, folic acid use and gestational age at time of intake. [§]Trends were based on multiple logistic regression models with DASH dietary score as SDS. R^2 values for confounder models: GHD, R^2=0.08; GH, R^2=0.09; PE, R^2=0.06.

Table S12. ***Sensitivity analysis:*** **associations of maternal DASH score with systolic and diastolic blood pressure in early-, mid- and late-pregnancy in participants without heart condition or hypercholesterolemia (n=3,356)[*].**

	Absolute values and differences in systolic blood pressure (mmHg)			
		Early-pregnancy[†]	Mid-pregnancy[†]	Late-pregnancy[†]
DASH		*n=2,789*	*n=3,246*	*n=3,265*
Quartile 1	Absolute mean value (sd)[†]	117.77 (11.84)	119.56 (12.05)	121.25 (12.17)
	Basic model[‡,§]	1.09 (-0.14, 2.33)	2.07[*] (0.95, 3.18)	1.73[*] (0.64, 2.82)
	Confounder model[‡,‖]	-0.44 (-1.68, 0.81)	0.12 (-1.03, 1.26)	-0.20 (-1.33, 0.93)
		n=688	n=809	n=808
Quartile 2	Absolute mean value (sd)[†]	117.44 (12.61)	118.82 (12.21)	121.04 (11.75)
	Basic model[‡,§]	0.75 (-0.50, 2.00)	1.30[*] (0.17, 2.43)	1.51[*] (0.41, 2.61)
	Confounder model[‡,‖]	-0.35 (-1.54, 0.83)	0.06 (-1.02, 1.14)	0.39 (-0.67, 1.45)
		n=655	n=762	n=771
Quartile 3	Absolute mean value (sd)[†]	117.26 (12.29)	118.02 (11.68)	119.68 (10.95)
	Basic model[‡,§]	0.61 (-0.62, 1.84)	0.52 (-0.60, 1.64)	0.15 (-0.94, 1.25)
	Confounder model[‡,‖]	-0.01 (-1.16, 1.15)	-0.11 (-1.17, 0.94)	-0.36 (1.40, 0.68)
		n=696	n=795	n=802
Quartile 4	Absolute mean value (sd)[†]	116.63 (11.02)	117.45 (10.93)	119.51 (10.87)
	Basic model[‡,§]	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference	Reference	Reference
		n=750	n=880	n=884
Trend[#]	*Basic model*[‡]	*-0.38 (-0.82, 0.06)*	*-0.79*[*] *(-1.19, -0.39)*	*-0.67*[*] *(-1.07, -0.28)*
	Confounder model[§]	*0.23 (-0.23, 0.68)*	*-0.03 (-0.45, 0.39)*	*0.10 (-0.31, 0.51)*
	Absolute values and differences in diastolic blood pressure (mmHg)			
		Early-pregnancy[†]	Mid-pregnancy[†]	Late-pregnancy[†]
DASH		*n=2,789*	*n=3,245*	*n= 3,264*
Quartile 1	Absolute mean value (sd)[†]	68.70 (9.01)	68.27 (9.80)	69.88 (9.62)
	Basic model[‡,§]	0.56 (-0.39, 1.50)	2.20[*] (1.32, 3.09)	1.03[*] (0.15, 1.90)
	Confounder model[‡,‖]	0.02 (-0.94, 0.97)	1.28[*] (0.37, 2.18)	0.01 (-0.88, 0.90)
		n=688	n=808	n=808
Quartile 2	Absolute mean value (sd)[†]	68.61 (10.08)	67.67 (9.76)	69.53 (9.26)
	Basic model[‡,§]	0.45 (-0.51, 1.41)	1.60[*] (0.70, 2.50)	0.67 (-0.21, 1.56)
	Confounder model[‡,‖]	-0.15 (-1.06, 0.76)	0.84[*] (-0.01, 1.69)	-0.10 (-0.94, 0.73)

		n=655	n=762	n=770
Quartile 3	Absolute mean value (sd)[†]	68.32 (9.03)	66.80 (8.90)	69.03 (8.75)
	Basic model[‡,§]	0.20 (-0.74, 1.15)	0.73 (-0.16, 1.62)	1.18 (-0.70, 1.05)
	Confounder model[‡,‖]	-0.23 (-1.11, 0.66)	0.29 (-0.54, 1.11)	-0.22 (-1.03, 0.59)
		n=696	n=795	n=802
Quartile 4	Absolute mean value (sd)[†]	68.10 (8.57)	66.06 (8.55)	68.85 (9.01)
	Basic model[‡,§]	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference	Reference	Reference
		n=750	n=880	n=884
Trend[#]	*Basic model*[‡]	*-0.21 (-0.54, 0.13)*	*-0.80*[*] *(-1.11, -0.48)*	*-0.43*[*] *(-0.74, -0.12)*
	Confounder model[§]	*0.01 (-0.34, 0.36)*	*-0.43*[*] *(-0.77, -0.10)*	*-0.02 (-0.35, 0.30)*

DASH, Dietary Approaches to Stop Hypertension. Sd, standard deviation. SBP, systolic blood pressure. DBP, diastolic blood pressure.
[*] P-value<0.05. [†]Values are mean blood pressure values (sd) and reflect the absolute value in SBP and DBP per DASH Quartile. P-values for comparison of absolute values among the four DASH quartiles were obtained by ANOVA (early-pregnancy SBP, p-value=0.324; mid-pregnancy SBP, p-value=0.001; late-pregnancy SBP, p-value=0.002; early-pregnancy DBP, p-value=0.324; mid-pregnancy DBP, p-value=0.001; late-pregnancy DBP, p-value=0.002). [‡]Values are regression coefficients (95% confidence interval) and reflect the difference in mmHg blood pressure per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 4) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: early-pregnancy SBP, R^2=0.14; mid-pregnancy SBP, R^2=0.15, late-pregnancy SBP, R^2=0.12; early-pregnancy DBP, R^2=0.14; mid-pregnancy DBP, R^2=0.16; late-pregnancy, R^2=0.15.[§]Models are adjusted for gestational age at intake.[‖]Models are adjusted for maternal age, educational level, parity, prepregnancy BMI, smoking habits, alcohol use, folic acid use, total energy intake and gestational age at time of the measurements. [#]Trends were based on multiple linear regression models with DASH dietary score as SDS. R^2 values for confounder models: early-pregnancy SBP, R^2=0.14; mid-pregnancy SBP, R^2=0.15, late-pregnancy SBP, R^2=0.12; early-pregnancy DBP, R^2=0.14; mid-pregnancy DBP, R^2=0.16; late-pregnancy, R^2=0.15.

Table S13. ***Sensitivity analysis:*** **associations of DASH score with placental vascular function in participants heart condition or hypercholesterolemia (n=3,356).**

		Absolute values and differences in UmPI[*,†]		**Absolute values and differences in UtRI**[*,†]		**Bilateral notching**[‡,†]
DASH		Mid-pregnancy *n=2,482*	Late-pregnancy *n=2,729*	Mid-pregnancy *n=1,864*	Late-pregnancy *n=2,042*	Late-pregnancy n_{cases}=47
Quartile 1	Absolute mean value (sd)[†]	1.201 (0.182)	1.000 (0.178)	0.535 (0.091)	0.490 (0.076)	n.a.
	Basic model[‡,§]	0.026[*] (0.006, 0.047)	0.037[*] (0.020, 0.054)	0.001 (-0.011, 0.012)	0.010[*] (0.001, 0.020)	1.17 (0.54, 2.56)
	Confounder model[‡,‖]	0.011(-0.010, 0.033) n=587	0.025[*] (0.007, 0.044) n=659	-0.002 (-0.014, 0.010) n=423	0.010 (0.000, 0.020) n=487	1.2 (0.454, 2.67) n_{cases}=13
Quartile 2	Absolute mean value (sd)[†]	1.198 (0.184)	0.970 (0.160)	0.535 (0.089)	0.484 (0.076)	n.a.
	Basic model[‡,§]	0.024[*] (0.004, 0.044)	0.006 (-0.011, 0.024)	0.001 (-0.011, 0.012)	0.005 (-0.005, 0.014)	1.01 (0.45, 2.28)
	Confounder model[‡,‖]	0.019 (-0.001, 0.039) n=589	0.002(-0.016, 0.019) n=634	0.001 (-0.011, 0.012) n=440	0.006 (-0.004, 0.015) n=471	0.88 (0.39, 2.03) n_{cases}=11
Quartile 3	Absolute mean value (sd)[†]	1.180 (0.186)	0.975 (0.163)	0.534 (0.089)	0.480 (0.081)	n.a.
	Basic model[‡,§]	0.006 (-0.014, 0.026)	0.012 (-0.005, 0.029)	0.000 (-0.011, 0.011)	0.000 (-0.009, 0.010)	0.86 (0.37, 1.98)
	Confounder model[‡,‖]	0.009 (-0.011, 0.028) n=621	0.012(-0.005, 0.029) n=681	-0.001 (-0.012, 0.010) n=461	0.000 (-0.009, 0.009) n=508	0.87 (0.38, 2.01) n_{cases}=10
Quartile 4	Absolute mean value (sd)[†]	1.174 (0.182)	0.963 (0.162)	0.535 (0.088)	0.479 (0.077)	n.a.
	Basic model[‡,§]	Reference	Reference	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference n=685	Reference n=755	Reference n=540	Reference n=576	Reference n_{cases}=13
Trend[#]	*Basic model*[‡]	*-0.012*[*] *(-0.019, -0.005)*	*-0.013*[*] *(-0.019, -0.007)*	*0.000 (-0.004, 0.004)*	*-0.003 (-0.007, 0.000)*	*0.97 (0.74, 1.33)*
	Confounder model[§]	*-0.007 (-0.014, 0.001)*	*-0.008* [*] *(-0.015, -0.001)*	*0.001 (-0.003, 0.006)*	*-0.003 (-0.007, 0.001)*	*0.99 (0.74, 1.33)*

UmPI, umbilical artery pulsatility index. UtRI, umbilical artery resistance index. DASH, Dietary Approaches to Stop Hypertension. Sd, standard deviation. [*] P-value<0.05. [†]Values are mean values (sd) and reflect the absolute value in UmPI and UtRI per DASH Quartile. P-values for comparison of absolute values among the four DASH quartiles were obtained by ANOVA (mid-pregnancy UmPI, p-value=0.019; late-pregnancy UmPI, p-value<0.001; mid-pregnancy UtRI, p-value=0.998; late-pregnancy UtRI, p-value=0.101). [‡]Values for UmPI and UtRI are regression coefficients (95% confidence interval) and reflect the difference in UmPI and UtRI per DASH Quartile. Values for bilateral notching are odds ratios (95% confidence interval) that reflect difference in risks of bilateral notching per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 4) as reference. Estimates are from

multiple imputed data. R-squared values for confounder models: mid-pregnancy UmPI, R^2=0.07; late-pregnancy UmPI, R^2=0.04; mid-pregnancy UtRI, R^2=0.02; late-pregnancy UtRI, R^2=0.03; bilateral notching R^2=0.01). [§]Models are adjusted for gestational age at intake.[‖] Models for UmPI and UtRI are adjusted for maternal age, educational level, parity, prepregnancy BMI, smoking habits, alcohol use, folic acid use, total energy intake and gestational age at time of the measurements. Models for bilateral notching are adjusted for parity, prepregnancy BMI, folic acid use and gestational age at time of measurement. [#]Trends were based on multiple linear regression models with DASH dietary score as SDS for UmPI and UtRI; and on multiple logistic regression models with DASH dietary score as SDS for bilateral notching. R-squared values for confounder models: mid-pregnancy UmPI, R^2=0.07; late-pregnancy UmPI, R^2=0.04; mid-pregnancy UtRI, R^2=0.02; late-pregnancy UtRI, R^2=0.03; bilateral notching R^2=0.01).

Table S14. ***Sensitivity analysis:*** **associations of maternal DASH score the risks of gestational hypertensive disorder in participants without heart condition or hypercholesterolemia (n=3,356)[*].**

		Gestational hypertensive disorders	**Gestational hypertension**	**Preeclampsia**
DASH		Odds ratio (95% CI) n_{cases}=227	Odds ratio (95% CI) n_{cases}=167	Odds ratio (95% CI) n_{cases}=59
Quartile 1	Basic model[†]	1.32 (0.92, 1.90)	1.23 (0.81, 1.86)	1.63 (0.80, 3.32)
	Confounder model[‡]	1.17 (0.80, 1.71)	1.06 (0.69, 1.64)	1.49 (0.71, 3.12)
		n_{cases}=69	n_{cases}=50	n_{cases}=19
Quartile 2	Basic model[†]	0.95 (0.64, 1.41)	1.04 (0.68, 1.61)	0.62 (0.25, 1.57)
	Confounder model[‡]	0.83 (0.55, 1.25)	0.90 (0.58, 1.41)	0.57 (0.22, 1.44)
		n_{cases}=48	n_{cases}=41	n_{cases}=7
Quartile 3	Basic model[†]	0.98 (0.67, 1.45)	0.78 (0.49, 1.24)	1.70 (0.84, 3.44)
	Confounder model[‡]	0.93 (0.63, 1.38)	0.70 (0.44, 1.13)	1.74 (0.85, 3.55)
		n_{cases}=52	n_{cases}=32	n_{cases}=20
Quartile 4	Basic model[†]	Reference	Reference	Reference
	Confounder model[‡]	Reference	Reference	Reference
		n_{cases}=58	n_{cases}=45	n_{cases}=13
Trend[§]	*Basic model*[†]	*0.89 (0.78, 1.02)*	*0.89 (0.77, 1.04)*	*0.90 (0.69, 1.15)*
	Confounder model[‡]	*0.94 (0.82, 1.09)*	*0.94 (0.80, 1.11)*	*0.93 (0.71, 1.22)*

DASH, Dietary Approaches to Stop Hypertension. GHD, Gestational hypertensive disorders. GH, Gestational Hypertension. PE, Preeclampsia.
[*]Values are odds ratios (95% confidence interval) that reflect difference in risks of gestational hypertensive disorders, gestational hypertension and preeclampsia per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 1) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: GHD, R^2=0.09; GH, R^2=0.09; PE, R^2=0.09). [†]Models are adjusted for gestational age at intake. [‡] Models are adjusted for parity, prepregnancy BMI, folic acid use and gestational age at time of intake. [§]Trends were based on multiple logistic regression models with DASH dietary score as SDS. R^2 values for confounder models: GHD, R^2=0.09; GH, R^2=0.09; PE, R^2=0.07).

Table S15. ***Sensitivity analysis:*** **associations of maternal DASH score with systolic and diastolic blood pressure in early-, mid- and late-pregnancy in participants enrolled in the first trimester of pregnancy (n=1,888).**

	Absolute values and differences in systolic blood pressure (mmHg)			
		Early-pregnancy[†]	Mid-pregnancy[†]	Late-pregnancy[†]
DASH		*n=1,869*	*n=1,854*	*n=1,842*
Quartile 1	Absolute mean value (sd)[†]	118.03 (11.97)	120.14 (11.80)	120.96 (12.16)
	Basic model[‡,§]	1.03 (-0.48, 2.55)	2.02[*] (0.52, 3.51)	0.73 (-0.74, 2.19)
	Confounder model[‡,‖]	-0.10 (-1.64, 1.43)	0.81 (-0.71, 2.32)	-0.52 (-2.02, 0.97)
		n=464	n=462	n=457
Quartile 2	Absolute mean value (sd)[†]	117.66 (12.59)	119.47 (12.10)	120.71 (11.95)
	Basic model[‡,§]	0.67 (-0.86, 2.19)	1.35 (-0.16, 2.85)	0.47 (-1.00, 1.95)
	Confounder model[‡,‖]	-0.12 (-1.56, 1.32)	0.48 (-0.95, 1.90)	-0.28 (-1.68, 1.13)
		n=450	n=447	n=445
Quartile 3	Absolute mean value (sd)[†]	117.67 (12.10)	118.89 (12.12)	119.82 (11.06)
	Basic model[‡,§]	0.70 (-0.81, 2.21)	0.75 (-0.74, 2.25)	-0.40 (-1.86, 1.06)
	Confounder model[‡,‖]	-0.07 (-1.45, 1.39)	0.01 (-1.39, 1.42)	-1.06 (-2.44, 0.32)
		n=462	n=457	n=456
Quartile 4	Absolute mean value (sd)[†]	116.95 (11.03)	118.15 (10.83)	120.21 (10.56)
	Basic model[‡,§]	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference	Reference	Reference
		n=493	n=488	n=484
Trend[#]	*Basic model*[‡]	*-0.36 (-0.90, 0.18)*	*-0.78*[*] *(-1.32, -0.25)*	*-0.35 (-0.87, 0.18)*
	Confounder model[§]	*0.04 (-0.52, 0.60)*	*-0.35 (-0.90, 0.21)*	*0.11 (-0.44, 0.65)*
	Absolute values and differences in diastolic blood pressure (mmHg)			
		Early-pregnancy[†]	Mid-pregnancy[†]	Late-pregnancy[†]
DASH		*n=1,869*	*n=1,853*	*n=1,841*
Quartile 1	Absolute mean value (sd)[†]	69.43 (9.31)	68.60 (9.75)	69.89 (9.53)
	Basic model[‡,§]	1.03 (-0.15, 2.21)	2.36[*] (1.17, 3.54)	0.44 (-0.73, 1.60)
	Confounder model[‡,‖]	0.80 (-0.38, 1.97)	1.87[*] (0.68, 3.07)	-0.20 (-1.35, 0.95)
		n=464	n=461	=457
Quartile 2	Absolute mean value (sd)[†]	69.15 (10.06)	68.06 (9.90)	69.59 (9.27)
	Basic model[‡,§]	0.76 (-0.43, 1.94)	1.81[*] (0.62, 3.01)	0.14 (-1.04, 1.31)
	Confounder model[‡,‖]	0.35 (-0.76, 1.45)	1.28[*] (0.16, 2.40)	-0.47 (-1.55, 0.62)

		n=450	n=447	n=444
Quartile 3	Absolute mean value (sd)[†]	68.88 (9.23)	67.15 (9.17)	69.20 (8.98)
	Basic model[‡,§]	0.48 (-0.69, 1.66)	0.88 (-0.31, 2.07)	-0.24 (-1.41, 0.93)
	Confounder model[‡,‖]	-0.08 (-1.17, 1.01)	0.30 (-0.81, 1.40)	-0.86 (-1.92, 0.21)
		n=462	n=457	n=456
Quartile 4	Absolute mean value (sd)[†]	68.40 (8.42)	66.29 (8.39)	69.43 (8.74)
	Basic model[‡,§]	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference	Reference	Reference
		n=493	n=488	n=484
Trend[#]	*Basic model*[‡]	*-0.39 (-0.81, 0.03)*	*-0.80*[*] *(-1.23, -0.38)*	*-0.24 (-0.66, 0.18)*
	Confounder model[§]	*-0.32 (-0.75, 0.11)*	*-0.63*[*] *(-1.07, -0.19)*	*-0.01 (-0.43, 0.41)*

DASH, Dietary Approaches to Stop Hypertension. Sd, standard deviation. SBP, systolic blood pressure. DBP, diastolic blood pressure.
[*] P-value<0.05. [†]Values are mean blood pressure values (sd) and reflect the absolute value in SBP and DBP per DASH Quartile. P-values for comparison of absolute values among the four DASH quartiles were obtained by ANOVA (early-pregnancy SBP, p-value=0.553; mid-pregnancy SBP, p-value=0.059; late-pregnancy SBP, p-value=0.435; early-pregnancy DBP, p-value=0.359; mid-pregnancy DBP, p-value=0.001; late-pregnancy DBP, p-value=0.716). [‡]Values are regression coefficients (95% confidence interval) and reflect the difference in mmHg blood pressure per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 4) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: early-pregnancy SBP, R^2=0.14; mid-pregnancy SBP, R^2=0.14, late-pregnancy SBP, R^2=0.13; early-pregnancy DBP, R^2=0.16; mid-pregnancy DBP, R^2=0.16; late-pregnancy, R^2=0.18. [§]Models are adjusted for gestational age at intake.[‖]Models are adjusted for maternal age, educational level, parity, prepregnancy BMI, smoking habits, alcohol use, folic acid use, total energy intake and gestational age at time of the measurements. [#]Trends were based on multiple linear regression models with DASH dietary score as SDS. R^2 values for confounder models: early-pregnancy SBP, R^2=0.14; mid-pregnancy SBP, R^2=0.14, late-pregnancy SBP, R^2=0.13; early-pregnancy DBP, R^2=0.16; mid-pregnancy DBP, R^2=0.16; late-pregnancy, R^2=0.18.

Table S16. ***Sensitivity analysis:*** **associations of DASH score with placental vascular function in participants enrolled in the first trimester of pregnancy (n=1,888).**

		Absolute values and differences in UmPI[*,†]		**Absolute values and differences in UtRI[*,†]**		**Bilateral notching[†]**
DASH		Mid-pregnancy *n=1,518*	Late-pregnancy *n=1,618*	Mid-pregnancy *n=1,231*	Late-pregnancy *n=1,164*	Late-pregnancy n_{cases}=30
Quartile 1	Absolute mean value (sd)[†]	1.209 (0.180)	1.002 (0.173)	0.536 (0.089)	0.490 (0.075)	n.a.
	Basic model[‡,§]	0.022 (-0.004, 0.048)	0.035[§] (0.013, 0.057)	0.000 (-0.014, 0.015)	0.012 (0.000, 0.024)	0.50 (0.17, 1.47)
	Confounder model[‡,‖]	0.001 (-0.026, 0.028)	0.017 (-0.006, 0.041)	0.002 (-0.014, 0.017)	0.013 (0.000, 0.026)	0.53 (0.18, 1.56)
		n=361	n=397	n=271	n=297	n_{cases}=5
Quartile 2	Absolute mean value (sd)[†]	1.196 (0.188)	0.960 (0.156)	0.536 (0.092)	0.486 (0.077)	n.a.
	Basic model[‡,§]	0.010 (-0.016, 0.036)	-0.007 (-0.029, 0.016)	0.000 (-0.014, 0.015)	0.008 (-0.005, 0.020)	0.55 (0.19, 1.60)
	Confounder model[‡,‖]	0.005 (-0.020, 0.031)	-0.015 (-0.037, 0.008)	0.002 (-0.012, 0.017)	0.008 (-0.004, 0.021)	0.54 (0.18, 1.57)
		n=371	n=382	n=282	n=276	n_{cases}=5
Quartile 3	Absolute mean value (sd)[†]	1.190 (0.176)	0.973 (0.159)	0.532 (0.089)	0.478 (0.081)	n.a.
	Basic model[‡,§]	0.005 (-0.021, 0.030)	0.007 (-0.015, 0.029)	-0.004 (-0.018, 0.010)	-0.001 (-0.013, 0.011)	0.86 (0.35, 2.10)
	Confounder model[‡,‖]	0.008 (-0.017, 0.033)	0.005 (-0.017, 0.027)	-0.002 (-0.016, 0.013)	-0.000 (-0.012, 0.011)	0.85 (0.35, 2.08)
		n=383	n=412	n=291	n=321	n_{cases}=9
Quartile 4	Absolute mean value (sd)[†]	1.185 (0.183)	0.965 (0.164)	0.536 (0.090)	0.478 (0.074)	n.a.
	Basic model[‡,§]	Reference	Reference	Reference	Reference	Reference
	Confounder model[‡,‖]	Reference	Reference	Reference	Reference	Reference
		n=403	n=427	n=320	n=337	n_{cases}=11
Trend[#]	*Basic model[‡]*	*-0.008 (-0.017, 0.002)*	*-0.009 [§] (-0.018, -0.001)*	*0.000 (-0.005, 0.005)*	*0.000 (-0.008, 0.000)*	*1.45 (0.99, 2.14)*
	Confounder model[§]	*0.000 (-0.009, 0.010)*	*-0.002 (-0.010. 0.007)*	*-0.001 (-0.006, 0.005)*	*-0.004 (-0.009, 0.000)*	*1.45 (0.98, 2.16)*

UmPI, umbilical artery pulsatility index. UtRI, umbilical artery resistance index. DASH, Dietary Approaches to Stop Hypertension. Sd, standard deviation. [*] P-value<0.05. [†]Values are mean values (sd) and reflect the absolute value in UmPI and UtRI per DASH Quartile. P-values for comparison of absolute values among the four DASH quartiles were obtained by ANOVA (mid-pregnancy UmPI, p-value=0.308; late-pregnancy UmPI, p-value=0.002; mid-pregnancy UtRI, p-value=0.927; late-pregnancy UtRI, p-value=0.123). [‡]Values for UmPI and UtRI are regression coefficients (95% confidence interval) and reflect the difference in UmPI and UtRI per DASH Quartile. Values for bilateral notching are odds ratios (95% confidence interval) that reflect difference in risks of bilateral notching per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 4) as reference. Estimates are from

multiple imputed data. R^2 values for confounder models: mid-pregnancy UmPI, R^2=0.07; late-pregnancy UmPI, R^2=0.05; mid-pregnancy UtRI, R^2=0.02; late-pregnancy UtRI, R^2=0.04; bilateral notching R^2=0.02. [§]Models are adjusted for gestational age at intake. [‖]Models for UmPI and UtRI are adjusted for maternal age, educational level, parity, prepregnancy BMI, smoking habits, alcohol use, folic acid use, total energy intake and gestational age at time of the measurements. Models for bilateral notching are adjusted for parity, prepregnancy BMI, folic acid use and gestational age at time of measurement. [#]Trends were based on multiple linear regression models with DASH dietary score as SDS for UmPI and UtRI; and on multiple logistic regression models with DASH dietary score as SDS for bilateral notching. R^2 values for confounder models: mid-pregnancy UmPI, R^2=0.07; late-pregnancy UmPI, R^2=0.05; mid-pregnancy UtRI, R^2=0.02; late-pregnancy UtRI, R^2=0.04; bilateral notching R^2=0.02.

Table S17. *Sensitivity analysis*: associations of maternal DASH score the risks of gestational hypertensive disorder in participants enrolled in the first trimester of pregnancy (n=1,888)[*].

		Gestational hypertensive disorders	**Gestational hypertension**	**Preeclampsia**
		Odds ratio (95% CI)	Odds ratio (95% CI)	Odds ratio (95% CI)
DASH		n_{cases}=124	n_{cases}=96	n_{cases}=28
Quartile 1	Basic model[†]	1.22 (0.75, 1.99)	1.03 (0.60, 1.78)	2.29 (0.79, 6.66)
	Confounder model[‡]	1.10 (0.66, 1.82)	0.91 (0.51, 1.61)	2.04 (0.68, 6.11)
		n_{cases}=39	n_{cases}=28	n_{cases}=11
Quartile 2	Basic model[†]	0.75 (0.44, 1.30)	0.85 (0.48, 1.50)	0.21 (0.02, 1.80)
	Confounder model[‡]	0.65 (0.37, 1.14)	0.72 (0.40, 1.30)	0.19 (0.02, 1.65)
		n_{cases}=24	n_{cases}=23	n_{cases}=1
Quartile 3	Basic model[†]	0.88 (0.52, 1.48)	0.63 (0.34, 1.16)	2.28 (0.78, 6.61)
	Confounder model[‡]	0.76 (0.44, 1.29)	0.51 (0.27, 0.98)*	2.16 (0.74, 6.30)
		n_{cases}=28	n_{cases}=17	n_{cases}=11
Quartile 4	Basic model[†]	Reference	Reference	Reference
	Confounder model[‡]	Reference	Reference	Reference
		n_{cases}=33	n_{cases}=28	n_{cases}=5
Trend[§]	Basic model[†]	*0.93 (0.77, 1.12)*	*0.96 (0.78, 1.18)*	*0.82 (0.57, 1.20)*
	Confounder model[‡]	*0.96 (0.79, 1.17)*	*1.00 (0.80, 1.25)*	*0.86 (0.58, 1.27)*

DASH, Dietary Approaches to Stop Hypertension. CI, Confidence Interval. GHD, Gestational hypertensive disorders. GH, Gestational Hypertension. PE, Preeclampsia.

[*]Values are odds ratios (95% confidence interval) that reflect difference in risks of gestational hypertensive disorders, gestational hypertension and preeclampsia per DASH Quartile. Groups are compared to women with the lowest DASH dietary score (Quartile 1) as reference. Estimates are from multiple imputed data. R^2 values for confounder models: GHD, R^2=0.11; GH, R^2=0.12; PE, R^2=0.09. [†]Models are adjusted for gestational age at intake. [‡]Models are adjusted for parity, prepregnancy BMI, folic acid use, and gestational age at time of intake. [§]Trends were based on multiple logistic regression models with DASH dietary score as SDS. R^2 values for confounder models: GHD, R^2=0.10; GH, R^2=0.11; PE, R^2=0.05.

Table S18. Associations of maternal DASH score with the risks of gestational hypertensive disorder with adjustment for propensity score (1,780) [*].

	Bilateral notching	**Gestational hypertensive disorders**	**Gestational hypertension**	**Preeclampsia**
	Late-pregnancy	Odds ratio (95% CI)	Odds ratio (95% CI)	Odds ratio (95% CI)
DASH	n_{cases}=48	n_{cases}=232	n_{cases}=173	n_{cases}=59
Quartile 1	1.18 (0.49, 2.83)	1.15 (0.75, 1.75)	0.96 (0.59, 1.57)	1.89 (0.84, 4.23)
	n_{cases}=13	n_{cases}=70	n_{cases}=51	n_{cases}=19
Quartile 4	Reference	Reference	Reference	Reference
	n_{cases}=14	n_{cases}=59	n_{cases}=46	n_{cases}=13
Propensity score	1.46 (0.25, 8.49)	0.61 (0.27, 1.36)	0.42 (0.17, 1.05)	1.85 (0.39, 8.68)

DASH, Dietary Approaches to Stop Hypertension. CI, Confidence Interval. GHD, Gestational hypertensive disorders. GH, Gestational Hypertension. PE, Preeclampsia.

[*] Values are odds ratios (95% confidence interval) that reflect difference in risks of bilateral uterine artery notching, gestational hypertensive disorders, gestational hypertension and preeclampsia per DASH quartile. DASH score quartile 1 is compared to DASH score quartile 4 as a reference category. Estimates are from multiple imputed data. Models are adjusted for propensity scores that were calculated using a logistic regression model to predict the likelihood of having a DASH score in quartile 1 rather than quartile 4. R^2 values for confounder models: bilateral notching R^2=0.001, GHD, R^2=0.01; GH, R^2=0.002; PE, R^2=0.01.

Figure S1. Flow chart of the study population.

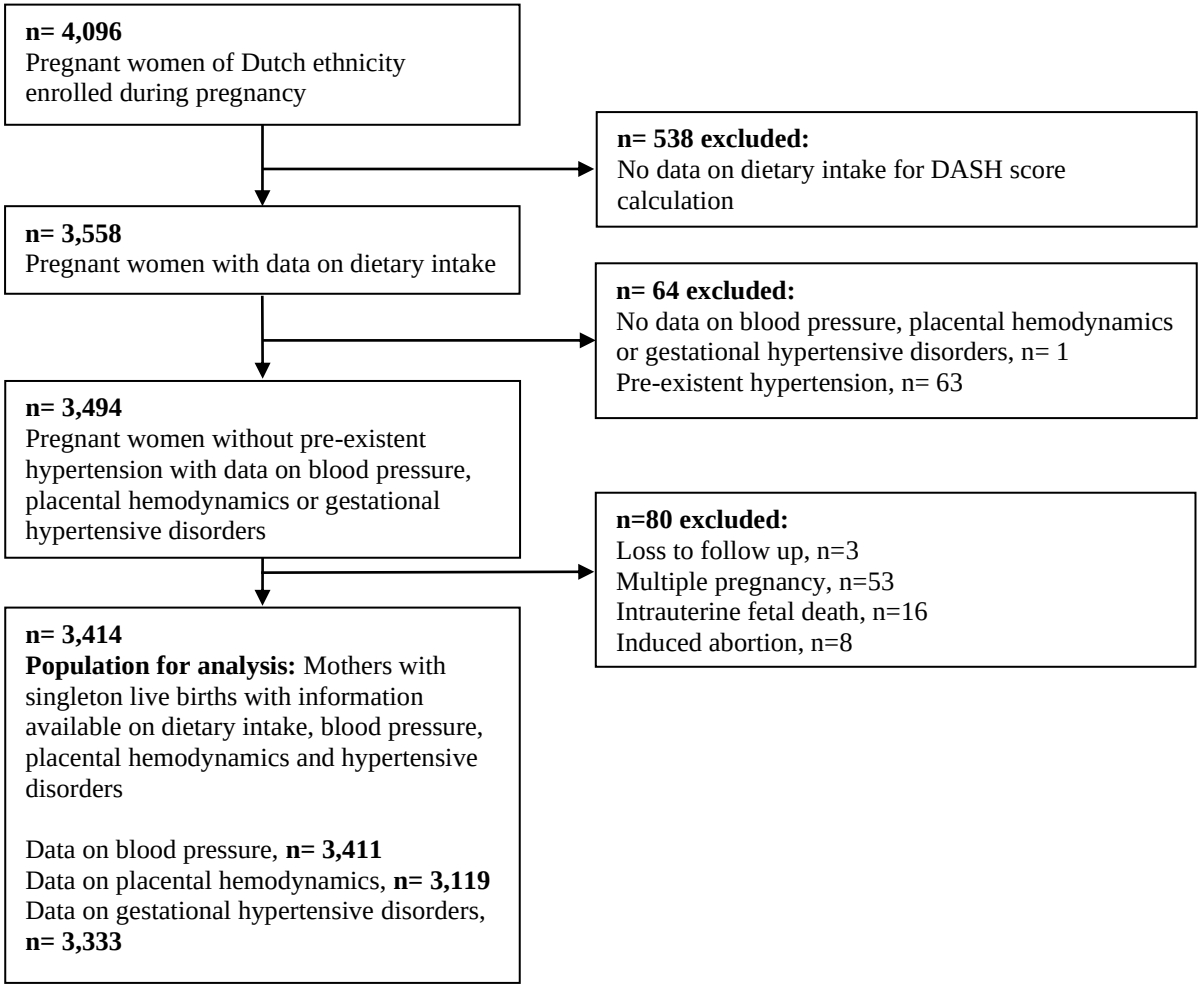

Figure S2. Flow chart of the non-responders.