

Supplementary Table 1 Linear associations of the temporal peripapillary retinal nerve fiber layer sectors with the different birth weight percentile groups (n = 285) and other covariates

	unadjusted [#]		multivariable [*]	
	B [95% CI]	p	B [95% CI]	p
Temporal superior pRNFL [μm]				
Gestational age (weeks)	1.150 (-0.143; 2.442)	0.081	0.314 (-1.186; 1.815)	0.68
Birth weight percentile (<3rd)	-7.571 (-12.62; -2.524)	0.003	-8.311 (-14.03; -2.597)	0.004
Birth weight percentile (3th - <10th)	-3.910 (-10.53; 2.709)	0.25	-6.294 (-13.06; 0.564)	0.072
Birth weight percentile (10th – 90th; ref.)	Ref.	Ref.	Ref.	Ref.
Birth weight percentile (>90th-97th)	1.115 (-5.601; 7.831)	0.75	-2.237 (-8.714; 4.239)	0.50
Birth weight percentile (>97th)	1.879 (-3.330; 7.087)	0.48	-0.106 (-5.655; 5.443)	0.97
Placental insufficiency (yes)	-4.849 (-13.42; 3.720)	0.27	0.116 (-8.224; 8.457)	0.98
Preeclampsia (yes)	-5.081 (-10.44; 0.274)	0.063	-2.581 (-8.401; -3.239)	0.39
Breast feeding (yes)	2.374 (-1.609; 6.303)	0.25	0.020 (-3.828; 3.868)	0.99
Temporal pRNFL [μm]				
Gestational age (weeks)	1.087 (0.189; 1.984)	0.018	1.115 (0.074; 2.156)	0.036
Birth weight percentile (<3rd)	-1.958 (-5.443; 1.528)	0.27	0.092 (-4.327; 4.511)	0.97
Birth weight percentile (3th - <10th)	0.435 (-4.032; 4.901)	0.85	-0.605 (-5.238; 4.028)	0.80
Birth weight percentile (10th – 90th; ref.)	Ref.	Ref.	Ref.	Ref.
Birth weight percentile (>90th-97th)	0.094 (-4.885; 5.073)	0.97	-0.909 (-5.431; 3.613)	0.69
Birth weight percentile (>97th)	2.221 (-2.724; 7.166)	0.38	1.888 (-3.090; 6.866)	0.46
Placental insufficiency (yes)	-3.999 (-9.305; 1.307)	0.14	-5.006 (-10.50; 0.48)	0.074
Preeclampsia (yes)	0.113 (-4.508; 4.733)	0.96	1.604 (-3.162; 6.370)	0.51
Breast feeding (yes)	-0.236 (-3.109; 2.638)	0.87	-2.456 (-5.274; 0.362)	0.088
Temporal inferior pRNFL [μm]				
Gestational age (weeks)	0.996 (-0.414; 2.405)	0.17	0.678 (-1.061; 2.417)	0.45
Birth weight percentile (<3rd)	-8.270 (-14.34; -2.200)	0.008	-11.66 (-18.44; -4.883)	0.001
Birth weight percentile (3th - <10th)	-1.204 (-9.029; 6.620)	0.76	-5.708 (-14.10; 2.687)	0.183
Birth weight percentile (10th – 90th; ref.)	Ref.	Ref.	Ref.	Ref.
Birth weight percentile (>90th-97th)	-2.099 (-9.280; 5.083)	0.57	-5.897 (-13.10; 1.306)	0.11
Birth weight percentile (>97th)	-1.339 (-8.747; 6.068)	0.72	-3.511 (-11.35; 4.325)	0.38
Placental insufficiency (yes)	1.029 (-10.77; 12.83)	0.86	7.564 (-3.638; 18.77)	0.19
Preeclampsia (yes)	-4.964 (-10.99; 1.065)	0.11	-3.173 (-9.173; 2.828)	0.30
Breast feeding (yes)	-0.251 (-5.023; 4.521)	0.92	-1.924 (-6.770; 2.922)	0.44

B – Beta; CI – Confidence interval; mm – millimeter

pRNFL – peripapillary retinal nerve fiber layer, B – Beta; CI – Confidence interval; μm – micrometer; Ref. - Reference

Linear regression analysis using generalized estimating equations to control for correlations between right and left eyes.

Crude model without adjustment.

*** Model with the inclusion of gender (female), age (years), spherical equivalent (diopter), gestational age (weeks), birth weight percentile (<3rd); birth weight percentile (3th - <10th), birth weight percentile (10th – 90th; reference), birth weight percentile (>90th – 97th) and birth weight percentile (>97th), placental insufficiency (yes), preeclampsia (yes) and breastfeeding (yes).**

Supplementary Table 2 Linear associations of the nasal peripapillary sectors with the different birth weight percentile groups (n = 285) and other covariates

	unadjusted [#]		multivariable [*]	
	B [95% CI]	p	B [95% CI]	p
Nasal superior pRNFL [µm]				
Gestational age (weeks)	0.267 (-1.150; 1.683)	0.71	-0.776 (-2.456; 0.905)	0.37
Birth weight percentile (<3rd)	-4.998 (-10.51; 0.508)	0.075	-9.859 (-16.80; -2.923)	0.005
Birth weight percentile (3th - <10th)	-9.585 (-14.97; -4.195)	<0.001	-13.70 (-20.22; -7.172)	<0.001
Birth weight percentile (10th – 90th; ref.)	Ref.	Ref.	Ref.	Ref.
Birth weight percentile (>90th-97th)	-3.109 (-8.846; 2.627)	0.29	-6.830 (-12.99; -0.663)	0.030
Birth weight percentile (>97th)	1.180 (-4.125; 6.486)	0.66	-2.376 (-8.321; 3.596)	0.43
Placental insufficiency (yes)	-3.146 (-9.912; 3.621)	0.36	-1.326 (-9.873; 7.221)	0.76
Preeclampsia (yes)	0.716 (-5.387; 6.819)	0.81	2.212 (-3.995; 8.418)	0.49
Breast feeding (yes)	2.540 (-1.856; 6.936)	0.26	1.116 (-3.414; 5.647)	0.63
Nasal pRNFL [µm]				
Gestational age (weeks)	1.536 (0.522; 2.551)	0.003	0.542 (-0.596; 1.680)	0.35
Birth weight percentile (<3rd)	-9.515 (-13.55; -5.479)	<0.001	-11.69 (-17.09; -6.293)	<0.001
Birth weight percentile (3th - <10th)	-4.153 (-8.776; 0.470)	0.078	-4.048 (-9.041; 0.944)	0.11
Birth weight percentile (10th – 90th; ref.)	Ref.	Ref.	Ref.	Ref.
Birth weight percentile (>90th-97th)	-1.177 (-4.947; 2.593)	0.54	-2.789 (-6.738; 1.161)	0.17
Birth weight percentile (>97th)	6.191 (1.811; 10.57)	0.006	2.518 (-2.304; 7.339)	0.31
Placental insufficiency (yes)	-0.689 (-11.58; 10.20)	0.90	7.760 (-4.166; 19.69)	0.20
Preeclampsia (yes)	3.049 (-1.954; 8.053)	0.23	3.103 (-2.168; 8.374)	0.25
Breast feeding (yes)	0.933 (-2.320; 4.186)	0.57	0.069 (-3.132; 3.296)	0.97
Nasal inferior pRNFL [µm]				
Gestational age (weeks)	0.665 (-1.138; 2.467)	0.47	-1.324 (-3.305; 0.657)	0.19
Birth weight percentile (<3rd)	-11.24 (-19.17; -3.306)	0.005	-17.00 (-26.23; -7.773)	<0.001
Birth weight percentile (3th - <10th)	-11.91 (-19.35; -4.471)	0.002	-13.94 (-22.03; -5.839)	0.001
Birth weight percentile (10th – 90th; ref.)	Ref.	Ref.	Ref.	Ref.
Birth weight percentile (>90th-97th)	-0.382 (-7.925; 7.162)	0.92	-3.104 (-11.05; 4.838)	0.44
Birth weight percentile (>97th)	6.666 (-0.553; 13.885)	0.070	3.115 (-5.190; 11.42)	0.46
Placental insufficiency (yes)	-2.906 (-18.11; 12.30)	0.71	6.538 (-10.35; 23.43)	0.45
Preeclampsia (yes)	-0.547 (-9.658; 8.563)	0.91	-0.088 (-9.468; 9.292)	0.99
Breast feeding (yes)	2.465 (-2.927; 7.857)	0.37	1.242 (-4.223; 6.707)	0.66

pRNFL – peripapillary retinal nerve fiber layer, B – Beta; CI – Confidence interval; µm – micrometer; Ref. - Reference

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Crude model without adjustment.

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