

## SUPPLEMENTAL MATERIAL

### Contents

**Supplemental Table 1.** Interactions between gestational age at birth and sex in relation to risk of chronic kidney disease (CKD) at ages 0-43 years. Page 2

**Supplemental Table 2.** Interactions between gestational age at birth and fetal growth in relation to risk of chronic kidney disease (CKD) at ages 0-43 years. Page 3

**Supplemental Table 1.** Interactions between gestational age at birth and sex in relation to risk of chronic kidney disease (CKD) at ages 0-43 years.

	Gestational age at birth						HRs (95% CI) for early term vs. full-term within sex strata	HRs (95% CI) for preterm vs. full- term within sex strata
	Full-term (39-41 wks)		Early term (37-38 wks)		Preterm (<37 wks)			
	Rate <sup>a</sup> HR (95% CI) <sup>b</sup> (Cases)		Rate <sup>a</sup> HR (95% CI) <sup>b</sup> (Cases)		Rate <sup>a</sup> HR (95% CI) <sup>b</sup> (Cases)			
<b>Sex</b>								
Female	3.87 (1,145)	Reference	4.81 (339)	1.24 (1.10, 1.40); <i>P</i> =0.001	9.14 (169)	2.24 (1.90, 2.63); <i>P</i> <0.001	1.24 (1.10, 1.40); <i>P</i> =0.001	2.24 (1.90, 2.63); <i>P</i> <0.001
Male	5.05 (1,545)	1.30 (1.20, 1.40); <i>P</i> <0.001	6.90 (531)	1.74 (1.57, 1.93); <i>P</i> <0.001	9.32 (210)	2.26 (1.95, 2.63); <i>P</i> <0.001	1.34 (1.21, 1.48); <i>P</i> <0.001	1.75 (1.49, 2.00); <i>P</i> <0.001
HRs (95% CI) for male vs. female within gestational age strata		1.30 (1.20, 1.40); <i>P</i> <0.001		1.40 (1.21, 1.60); <i>P</i> <0.001		1.01 (0.81, 1.22); <i>P</i> =0.91		
Interaction on additive scale: RERI (95% CI)			0.21 (-0.01, 0.42); <i>P</i> =0.06		-0.27 (-0.74, 0.20); <i>P</i> =0.26			
Interaction on multiplicative scale: HR ratio (95% CI)			1.08 (0.91, 1.25); <i>P</i> =0.33		0.78 (0.61, 0.95); <i>P</i> =0.01			

<sup>a</sup>CKD incidence rate per 100,000 person-years.<sup>b</sup>Adjusted for child characteristics (birth year, birth order, congenital anomalies) and maternal characteristics (age, education, BMI, smoking, preeclampsia, other hypertensive disorders, diabetes mellitus).

HR = hazard ratio, RERI = relative excess risk due to interaction

**Supplemental Table 2.** Interactions between gestational age at birth and fetal growth in relation to risk of chronic kidney disease (CKD) at ages 0-43 years.

	Gestational age at birth						HRs (95% CI) for early term vs. full- term within fetal growth strata	HRs (95% CI) for preterm vs. full- term within fetal growth strata
	Full-term (39-41 wks)		Early term (37-38 wks)		Preterm (<37 wks)			
	Rate <sup>a</sup> (Cases)	HR (95% CI) <sup>b</sup>	Rate <sup>a</sup> (Cases)	HR (95% CI) <sup>b</sup>	Rate <sup>a</sup> (Cases)	HR (95% CI) <sup>b</sup>		
<b>Fetal growth</b>								
AGA	4.29 (2,061)	Reference	5.47 (656)	1.27 (1.16, 1.38); <i>P</i> <0.001	8.18 (275)	1.83 (1.61, 2.07); <i>P</i> <0.001	1.27 (1.16, 1.38); <i>P</i> <0.001	1.83 (1.61, 2.07); <i>P</i> <0.001
SGA	6.37 (396)	1.43 (1.28, 1.59); <i>P</i> <0.001	10.34 (116)	2.22 (1.84, 2.68); <i>P</i> <0.001	15.58 (64)	3.08 (2.39, 3.96); <i>P</i> <0.001	1.55 (1.23, 1.88); <i>P</i> <0.001	2.15 (1.58, 2.73); <i>P</i> <0.001
HRs (95% CI) for SGA vs. AGA within gestational age strata		1.43 (1.28, 1.59); <i>P</i> <0.001		1.75 (1.41, 2.10); <i>P</i> =0.002		1.68 (1.22, 2.15); <i>P</i> =0.004		
Interaction on additive scale: RERI (95% CI)				0.52 (0.08, 0.97); <i>P</i> =0.02		0.82 (0.02, 1.63); <i>P</i> =0.045		
Interaction on multiplicative scale: HR ratio (95% CI)				1.23 (0.95, 1.50); <i>P</i> =0.11		1.18 (0.83, 1.53); <i>P</i> =0.31		

<sup>a</sup>CKD incidence rate per 100,000 person-years.

<sup>b</sup>Adjusted for child characteristics (sex, birth year, birth order, congenital anomalies) and maternal characteristics (age, education, BMI, smoking, preeclampsia, other hypertensive disorders, diabetes mellitus).

AGA = appropriate for gestational age, HR = hazard ratio, RERI = relative excess risk due to interaction, SGA = small for gestational age